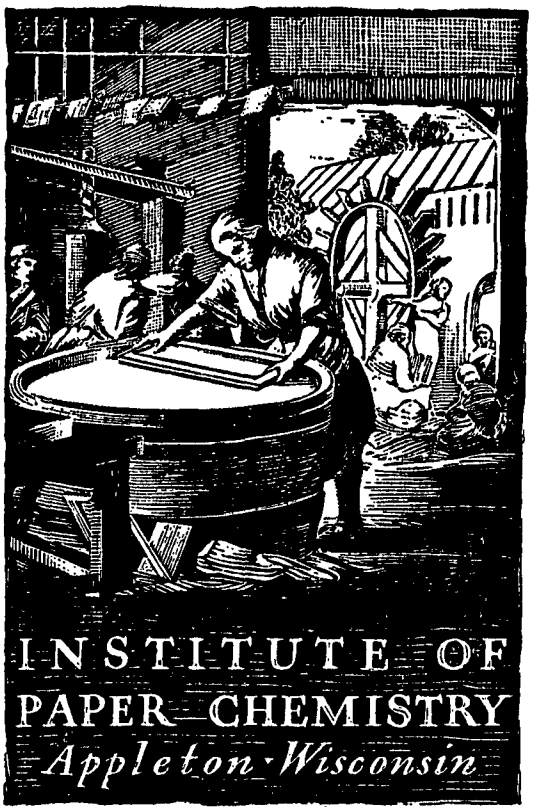


# CONTINUOUS BASELINE STUDY

**Project 1108-13**

**Progress Report 103**

**to**

## FOURDRINIER KRAFT BOARD INSTITUTE, INC.

**February 1, 1956**

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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In conjunction with the F.K.I. Continuous Baseline Study, one hundred and thirteen different sample lots of 42-lb. Fourdrinier kraft linerboard were submitted by sixteen different F.K.I. mills to The Institute of Paper Chemistry for testing during the period January 1 through January 31. In addition to the 42-lb. kraft linerboard, one sample of drum linerboard and four samples of miscellaneous linerboard were submitted for evaluation by one of the participating mills. The results on the special stock are tabulated separately in this report. A tabulation on the number of samples classified according to mill may be seen in Table I.

TABLE I

DISTRIBUTION OF 42-LB. LINERBOARD SAMPLES

| Mill Code | Samples Submitted |
|---|---|
| A | 10 |
| B | 8 |
| C | 8 |
| D | 10 |
| E | 2 |
| F | 11 |
| G | 10 |
| H | 8 |
| I | 7 |
| J | 4 |
| K | 3 |
| L | 10 |
| M | 5 |
| N | 6 |
| O | 0 |
| P | 6 |
| Q | 5 |
| | 113 |

These sample lots were tested for basis weight, caliper, bursting strength, and Elmendorf tear. The average strength results for each mill may be seen in Table II and are graphically presented in Figures 1 to 5. In addition to a comparison of the mill averages for the various tests, Table II also shows the current F.K.I. averages, the cumulative F.K.I. averages, and the F.K.I. indexes. The cumulative F.K.I. average is based on the results for the previous twelve months excluding the current period. Hence, in the case of the current report, it covers the period from January 1, 1955, to December 31, 1955. The F.K.I. indexes are obtained as follows:

$$\frac{\text{current F.K.I. average}}{\text{cumulative F.K.I. average}} \times 100 = \text{F.K.I. index (\%)}$$

The F.K.I. index provides a ready means of comparing the current quality with previous results. For example, the current F.K.I. average basis weight is 43.0 lb. The cumulative F.K.I. average basis weight is also 43.0 lb. Hence, the index for basis weight determined in per cent as indicated above is 100.0. This signifies that the current average basis weight is the same as the cumulative average, which in this case covered the period from January 1, 1955, through December 31, 1955.

A comparison of the results in Table II and Figure 1 shows that the average basis weight results for all mills conform to the 42-lb. specification set forth in Rule 41. Mill K has the highest average basis weight, it being 43.9 lb. or approximately 4.5% higher than the 42-lb. specification. On the other hand, Mill N has the lowest average basis weight, it being 42.4 lb., 1.0% higher than the 42-lb. specification.

The amount by which the mills vary from the 42-lb. specification is as follows:

| Mill Code | Percent |
|---|---|
| A | +2.6 |
| B | +1.4 |
| C | +2.6 |
| D | +3.1 |
| E | +1.9 |
| F | +1.4 |
| G | +2.6 |
| H | +2.1 |
| I | +2.6 |
| J | +1.9 |
| K | +4.5 |
| L | +1.4 |
| M | +3.3 |
| N | +1.0 |
| P | +1.2 |
| Q | +4.3 |

A comparison of the average basis weight data for the previous period with the current F.K.I. average indicates that the basis weight results have remained the same.

A comparison of the average caliper values for the various mills (see Figure 2) shows that the mill averages vary from a low of 11.7 for Mill F to a high of 14.4 for Mill Q, the average being 12.8 which is the same as the cumulative F.K.I. average.

The average bursting strength values obtained for each mill are graphically presented in Figure 3. It may be observed in Table II that the average bursting strength values for the various mills range from a low of

101 for Mill Q to a high of 119 for Mill B. The current F.K.I. average bursting strength is 109, slightly lower than the cumulative F.K.I. average of 110.

A graphic comparison of the Elmendorf tear results for the various mills is given in Figures 4 and 5. The data of Table II show that Mill K has the highest average machine direction tear value of 376 units whereas Mill B has the lowest value of 307 units. Mill F has the highest cross-machine direction tear value of 415 units and Mill B has the lowest value of 354 units. It may be noted that the current F.K.I. average machine and cross-machine direction tear results are slightly lower than the cumulative averages.

A comparison of the F.K.I. indexes indicates that, for the current period, the current F.K.I. averages for bursting strength and Elmendorf tear are slightly lower than the respective cumulative F.K.I. averages, whereas the current F.K.I. averages for basis weight and caliper are the same as the cumulative.

In order to compare the variation within a given mill, the test results for each particular mill have been tabulated in Tables III to XIX for mills A to Q, respectively. In addition to the current and cumulative averages, the mill factor and mill index are given for each mill. The cumulative mill average is the average test result obtained on the samples submitted by the particular mill for the previous twelve months excluding the current period. The mill factor and the mill index are obtained as follows:

$$\frac{\text{current mill average}}{\text{cumulative mill average}} \times 100 = \text{mill factor (\%)}$$

$$\frac{\text{current mill average}}{\text{cumulative F.K.I. average}} \times 100 = \text{mill index (\%)}$$

The mill factor and the mill index serve as a ready means for comparing the current mill results either with the previous results for that particular mill or with the cumulative F.K.I. results. The reports also contain a comparison of the test data obtained at the mills with test data obtained at The Institute of Paper Chemistry.

The results obtained on the special drum stock may be seen in Table XX.

It may be noted in Tables III through XX that the test data include information about the sheet finish. The summarized results for the mills which submitted sample lots during the current period are as follows:

| Mill Code | No. of Sample Lots W.F. | D.F. | Misc. |
|---|---|---|---|
| A | 10 | | |
| B | 8 | | |
| C | 8[a] | | |
| D | 10 | | |
| E | 2[a],1[b] | | |
| F | 11 | | |
| G | 10 | | |
| H | 8 | | |
| I | 7[a] | | |
| J | 4 | | |
| K | 3 | | |
| L | | | 10[c] |
| M | 5 | | |
| N | 5[a] | | 1[c] |
| O | No samples submitted. | | |
| P | 6 | | |
| Q | 5[a] | | |

[a] One side only; [b] Drum Linerboard; [c] Sheet finish not reported.

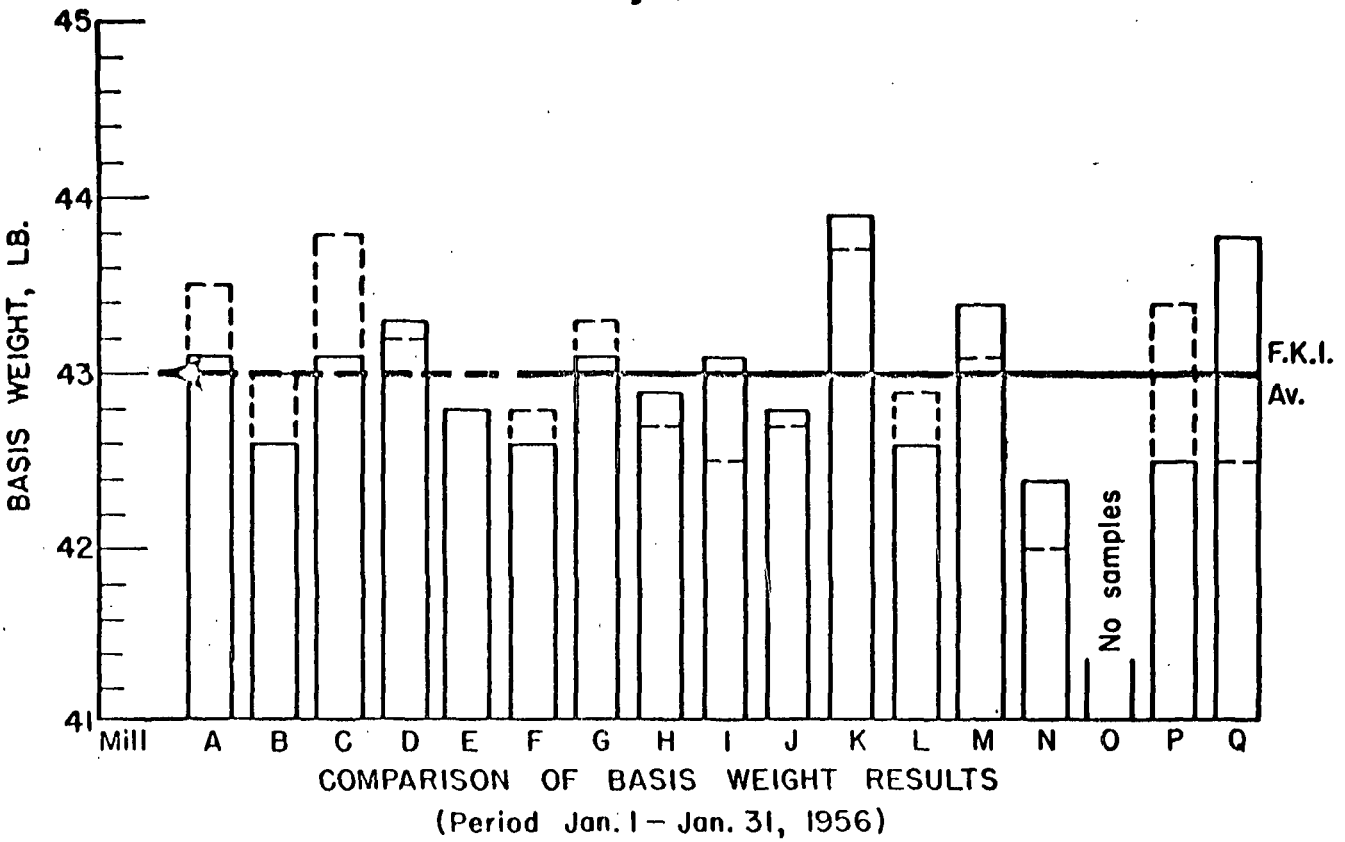
The results indicate that a majority of the mills are using a water finish on their 42-lb. linerboard.

## TABLE II

### SUMMARY OF COMPOSITE MILL AVERAGES--JANUARY 1 THROUGH JANUARY 31, 1956

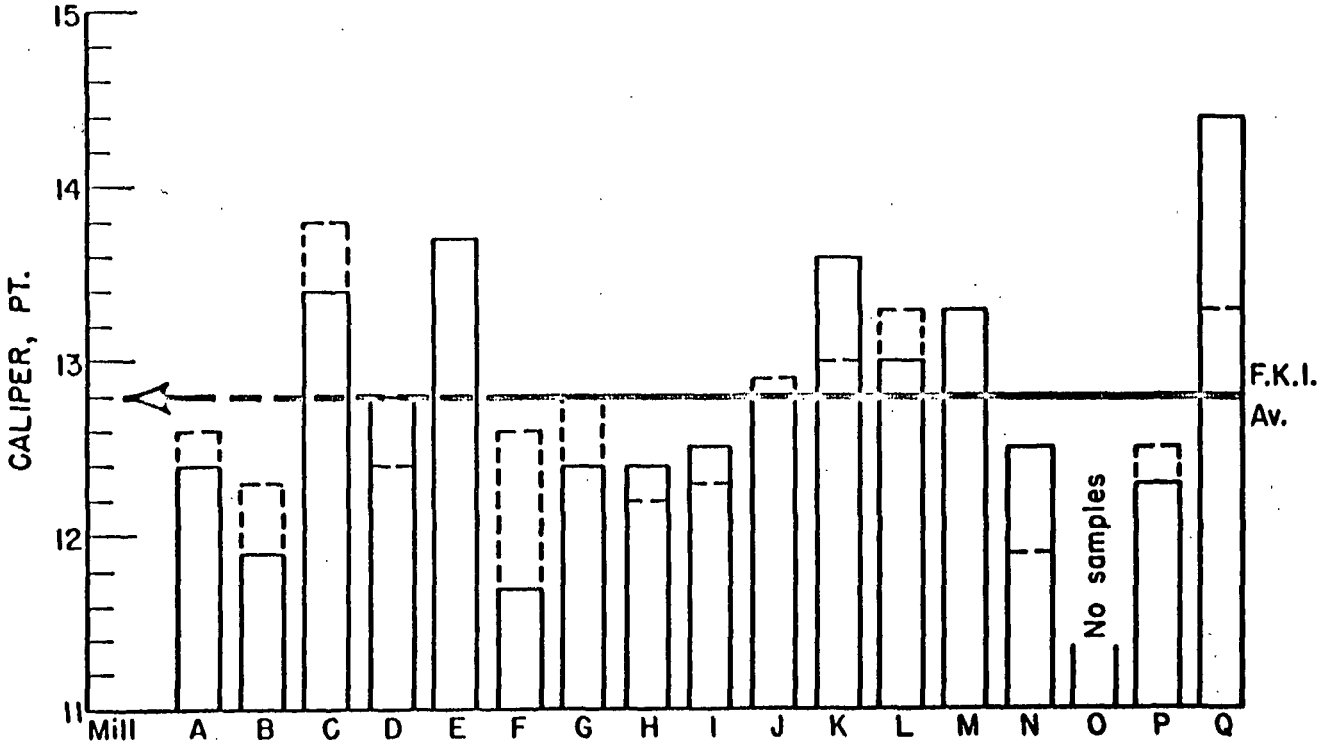
| Mill | Basis Weight, lb. | Caliper, points | Bursting Strength, p.s.i. gage | Elmendorf Tear, g./sheet | |
|---|---|---|---|---|---|
| | | | | In Machine | Cross Machine |
| A | 43.1 | 12.4 | 112 | 321 | 373 |
| B | 42.6 | 11.9 | 119 | 307 | 354 |
| C | 43.1 | 13.4 | 102 | 321 | 355 |
| D | 43.3 | 12.8 | 111 | 343 | 382 |
| E | 42.8 | 13.7 | 106 | 351 | 367 |
| F | 42.6 | 11.7 | 105 | 374 | 415 |
| G | 43.1 | 12.4 | 110 | 315 | 369 |
| H | 42.9 | 12.4 | 113 | 358 | 389 |
| I | 43.1 | 12.5 | 108 | 316 | 381 |
| J | 42.8 | 12.8 | 107 | 367 | 366 |
| K | 43.9 | 13.6 | 105 | 376 | 382 |
| L | 42.6 | 13.0 | 111 | 331 | 375 |
| M | 43.4 | 13.3 | 114 | 357 | 394 |
| N | 42.4 | 12.5 | 110 | 357 | 409 |
| O | No samples submitted. | | | | |
| P | 42.5 | 12.3 | 108 | 348 | 378 |
| Q | 43.8 | 14.4 | 101 | 336 | 378 |
| Current FKI Average: | 43.0 | 12.8 | 109 | 342 | 379 |
| Cumulative FKI Average: | 43.0 | 12.8 | 110 | 354 | 384 |
| FKI Index, % | 100.0 | 100.0 | 99.1 | 96.6 | 98.7 |

Figure 1




COMPARISON OF BASIS WEIGHT RESULTS
(Period Jan. 1 – Jan. 31, 1956)

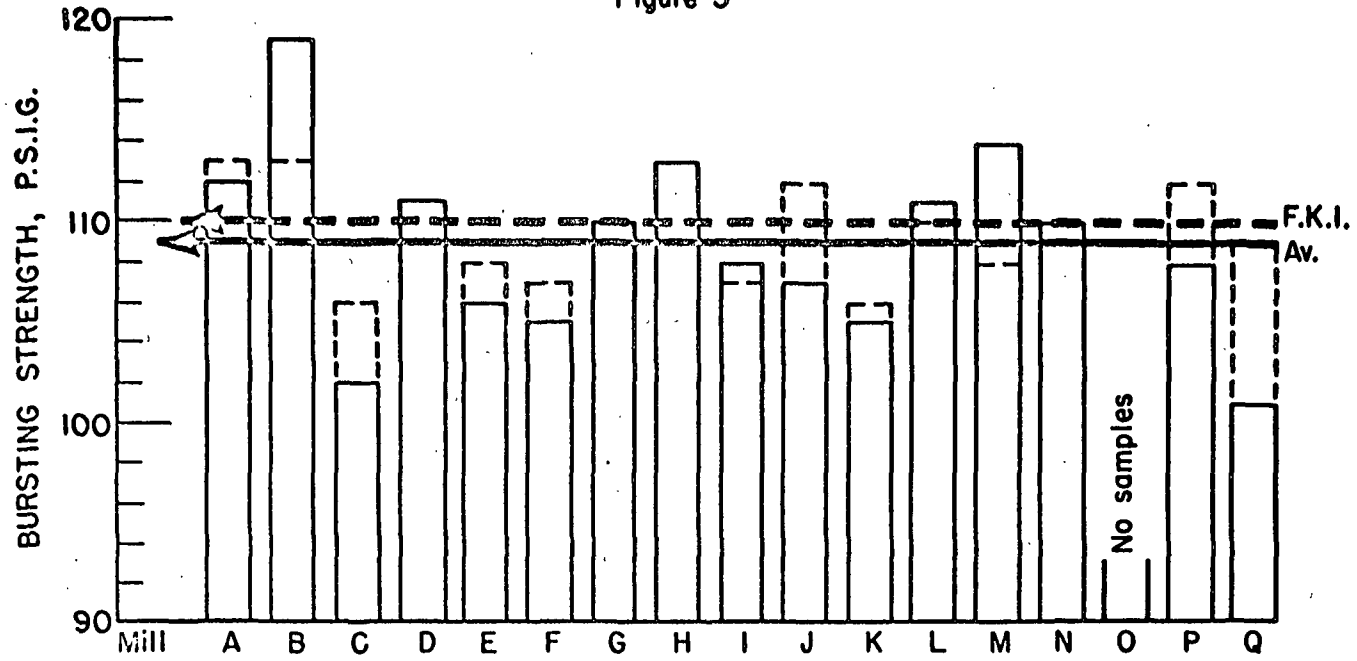
Figure 2




COMPARISON OF CALIPER RESULTS
(Period Jan. 1 – Jan. 31, 1956)

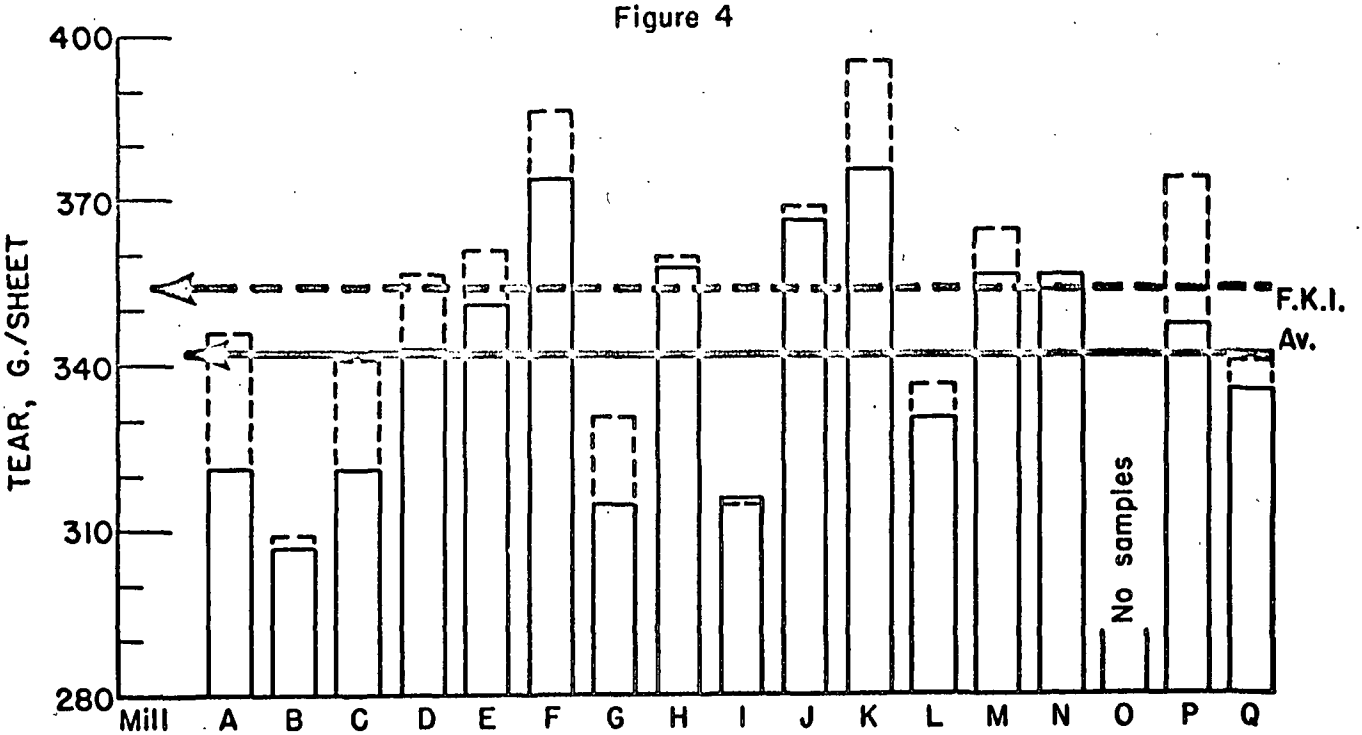
——— Current mill average
– – – – – Cumulative mill average

Figure 3




COMPARISON OF BURSTING STRENGTH RESULTS
(Period Jan. 1 – Jan. 31, 1956)

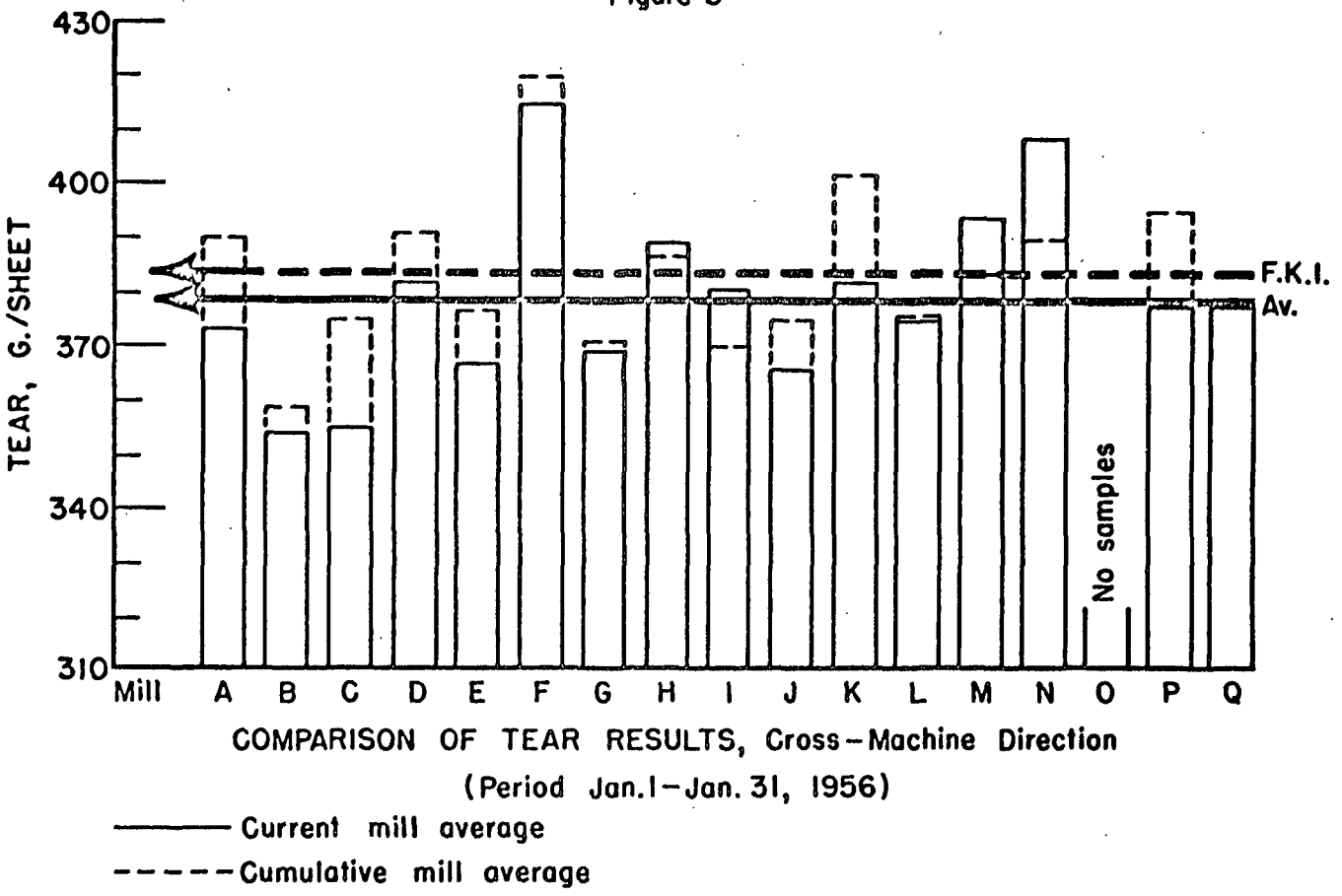
Figure 4




COMPARISON OF TEAR RESULTS, Machine Direction
(Period Jan. 1 – Jan. 31, 1956)

——— Current mill average
– – – – – Cumulative mill average

Figure 5




COMPARISON OF TEAR RESULTS, Cross-Machine Direction

(Period Jan.1-Jan. 31, 1956)

——— Current mill average

- - - - - Cumulative mill average

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956

TABLE III

MILL A--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167715 | A-716 | W.F. | 1/ 4/56 | 12/30/55 | 2 | 44.4 | 43.6 | 43.9 | 13.0 | 12.0 | 12.5 | 124 | 100 | 110 | 424 | 288 | 341[a] | 400 | 344 | 381[a] |
| 167716 | A-717 | W.F. | 1/ 4/56 | 12/31/55 | 2 | 44.4 | 43.4 | 43.9 | 13.3 | 12.7 | 13.0 | 126 | 84 | 109 | 376 | 304 | 334 | 400 | 352 | 365[a] |
| 167882 | A-718 | W.F. | 1/12/56 | 1/ 2/56 | 1 | 44.2 | 42.4 | 43.1 | 12.7 | 12.0 | 12.4 | 137 | 89 | 111 | 368 | 280 | 332[a] | 400 | 352 | 381[a] |
| 167883 | A-719 | W.F. | 1/12/56 | 1/ 3/56 | 1 | 43.8 | 42.6 | 43.4 | 13.0 | 12.0 | 12.4 | 130 | 91 | 107 | 384 | 288 | 331[a] | 408 | 320 | 364[a] |
| 167960 | A-720 | W.F. | 1/17/56 | 1/ 8/56 | 2 | 43.2 | 42.6 | 42.9 | 12.4 | 11.5 | 12.1 | 138 | 108 | 121 | 320 | 256 | 291 | 384 | 344 | 365[a] |
| 167961 | A-721 | W.F. | 1/17/56 | 1/ 9/56 | 2 | 44.0 | 42.8 | 43.3 | 12.6 | 12.0 | 12.2 | 143 | 103 | 123 | 336 | 280 | 316[a] | 424 | 352 | 383[a] |
| 168064 | A-722 | W.F. | 1/21/56 | 1/16/56 | 1 | 43.8 | 42.2 | 43.0 | 12.8 | 12.0 | 12.4 | 128 | 82 | 108 | 432 | 280 | 342[a] | 416 | 344 | 380[a] |
| 168065 | A-723 | W.F. | 1/21/56 | 1/16/56 | 1 | 44.0 | 42.0 | 43.0 | 12.9 | 12.0 | 12.5 | 125 | 80 | 109 | 368 | 296 | 326[a] | 400 | 352 | 382[a] |
| 168138 | A-724 | W.F. | 1/27/56 | 1/23/56 | 2 | 43.0 | 42.2 | 42.6 | 13.0 | 11.8 | 12.4 | 125 | 88 | 111 | 344 | 280 | 305[a] | 392 | 328 | 364[a] |
| 168139 | A-725 | W.F. | 1/27/56 | 1/23/56 | 1 | 43.0 | 42.0 | 42.2 | 13.0 | 11.3 | 12.2 | 125 | 80 | 108 | 320 | 264 | 296[a] | 400 | 328 | 369[a] |
| Current Mill Average: | | | | | | | | 43.1 | | | 12.4 | | | 112 | | | 321 | | | 373 |
| Cumulative Mill Average: | | | | | | | | 43.5 | | | 12.6 | | | 113 | | | 346 | | | 390 |
| Mill Factor, % | | | | | | | | 99.1 | | | 98.4 | | | 99.1 | | | 92.8 | | | 95.6 |
| Mill Index, % | | | | | | | | 100.2 | | | 96.9 | | | 101.8 | | | 90.7 | | | 97.1 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE IV

MILL B--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167668 | B-1258 | W.F. | 1/ 3/56 | 12/20/55 | 1 | 43.8 | 41.6 | 42.6 | 12.3 | 11.7 | 11.9 | 136 | 95 | 115 | 344 | 240 | 300[a] | 376 | 320 | 349[a] |
| 167669 | B-1259 | W.F. | 1/ 3/56 | 12/22/55 | 1 | 43.8 | 41.6 | 42.8 | 12.2 | 11.6 | 11.9 | 133 | 92 | 118 | 376 | 248 | 311 | 440 | 336 | 353[a] |
| 167717 | B-1260 | W.F. | 1/ 4/56 | 12/28/55 | 1 | 43.8 | 41.6 | 42.4 | 12.6 | 11.7 | 12.0 | 139 | 98 | 118 | 328 | 272 | 293[a] | 368 | 320 | 341[a] |
| 167718 | B-1261 | W.F. | 1/ 4/56 | 12/30/55 | 1 | 43.4 | 42.0 | 42.6 | 12.2 | 11.4 | 11.8 | 136 | 103 | 119 | 352 | 264 | 307 | 408 | 336 | 363[a] |
| 167939 | B-1262 | W.F. | 1/14/56 | 1/ 2/56 | 1 | 43.8 | 41.4 | 42.6 | 12.3 | 11.3 | 11.8 | 139 | 107 | 119 | 368 | 232 | 300 | 392 | 328 | 354[a] |
| 167940 | B-1263 | W.F. | 1/14/56 | 1/ 4/56 | 1 | 43.2 | 40.2 | 41.8 | 12.3 | 11.5 | 11.8 | 141 | 100 | 119 | 368 | 248 | 317[a] | 392 | 312 | 341[a] |
| 167970 | B-1264 | W.F. | 1/17/56 | 1/ 8/56 | 1 | 43.6 | 42.0 | 42.8 | 12.5 | 11.4 | 11.9 | 146 | 75 | 118 | 344 | 256 | 305 | 432 | 320 | 361[a] |
| 167971 | B-1265 | W.F. | 1/17/56 | 1/10/56 | 1 | 44.0 | 42.0 | 42.8 | 12.3 | 11.5 | 12.0 | 137 | 100 | 123 | 424 | 272 | 325[a] | 400 | 328 | 367[a] |
| Current Mill Average: | | | | | | | | 42.6 | | | 11.9 | | | 119 | | | 307 | | | 354 |
| Cumulative Mill Average: | | | | | | | | 43.0 | | | 12.3 | | | 113 | | | 309 | | | 359 |
| Mill Factor, % | | | | | | | | 99.1 | | | 96.7 | | | 105.3 | | | 99.4 | | | 98.6 |
| Mill Index, % | | | | | | | | 99.1 | | | 93.0 | | | 108.2 | | | 86.7 | | | 92.2 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE V

MILL C--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167822 | C-721 | WF ISL | 1/10/56 | 12/19/55 | 1 | 45.8 | 43.0 | 44.2 | 14.3 | 13.0 | 13.7 | 117 | 82 | 98 | 384 | 304 | 330[a] | 392 | 304 | 348[a] |
| 167823 | C-722 | WF ISL | 1/10/56 | 12/19/55 | 1 | 45.6 | 43.0 | 43.8 | 14.5 | 13.0 | 13.9 | 115 | 75 | 96 | 360 | 272 | 313[a] | 400 | 320 | 349[a] |
| 167824 | C-723 | WF ISL | 1/10/56 | 12/27/55 | 1 | 44.0 | 41.4 | 42.4 | 14.0 | 12.8 | 13.3 | 123 | 85 | 103 | 352 | 288 | 320[a] | 384 | 288 | 342[a] |
| 167809 | C-724 | WF ISL | 1/ 9/56 | 12/27/55 | 1 | 43.4 | 41.0 | 42.1 | 13.8 | 12.3 | 13.1 | 123 | 82 | 103 | 336 | 280 | 307[a] | 424 | 304 | 351[a] |
| 167810 | C-725 | WF ISL | 1/ 9/56 | 12/28/55 | 1 | 44.2 | 40.6 | 42.6 | 14.2 | 12.0 | 13.5 | 123 | 93 | 106 | 344 | 280 | 317[a] | 400 | 296 | 361[a] |
| 167811 | C-726 | WF ISL | 1/ 9/56 | 12/28/55 | 1 | 44.4 | 41.8 | 43.0 | 13.9 | 12.5 | 13.4 | 126 | 95 | 108 | 368 | 288 | 322[a] | 408 | 336 | 363[a] |
| 167877 | C-727 | WF ISL | 1/10/56 | 12/29/55 | 1 | 44.0 | 42.0 | 43.4 | 13.9 | 12.5 | 13.2 | 120 | 85 | 100 | 384 | 272 | 338 | 416 | 304 | 361[a] |
| 167878 | C-728 | WF ISL | 1/10/56 | 12/29/55 | 1 | 44.0 | 41.6 | 43.2 | 13.8 | 12.4 | 13.1 | 117 | 94 | 104 | 368 | 288 | 323[a] | 456 | 320 | 365[a] |
| Current Mill Average: | | | | | | | | 43.1 | | | 13.4 | | | 102 | | | 321 | | | 355 |
| Cumulative Mill Average: | | | | | | | | 43.8 | | | 13.8 | | | 106 | | | 341 | | | 375 |
| Mill Factor, % | | | | | | | | 98.4 | | | 97.1 | | | 96.2 | | | 94.1 | | | 94.7 |
| Mill Index, % | | | | | | | | 100.2 | | | 104.7 | | | 92.7 | | | 90.7 | | | 92.4 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE VI

MILL D--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167690 | D-933 | W.F. | 1/ 3/56 | 12/29/55 | 4 | 43.4 | 42.2 | 42.8 | 13.0 | 12.3 | 12.6 | 139 | 85 | 110 | 400 | 296 | 339[a] | 432 | 344 | 388[a] |
| 167708 | D-934 | W.F. | 1/ 3/56 | 12/30/55 | 4 | 43.8 | 42.4 | 43.4 | 12.7 | 12.0 | 12.3 | 142 | 92 | 114 | 408 | 304 | 345[a] | 416 | 336 | 374[a] |
| 167740 | D-935 | W.F. | 1/ 5/56 | 12/31/55 | 4 | 43.0 | 42.0 | 42.2 | 12.2 | 12.0 | 12.1 | 147 | 91 | 115 | 360 | 272 | 325[a] | 432 | 328 | 377[a] |
| 167879 | D-936 | W.F. | 1/11/56 | 1/ 5/56 | 4 | 43.0 | 41.4 | 42.4 | 13.2 | 12.4 | 12.9 | 128 | 94 | 111 | 400 | 296 | 345[a] | 416 | 320 | 367[a] |
| 167880 | D-937 | W.F. | 1/11/56 | 1/ 6/56 | 4 | 46.0 | 44.0 | 44.6 | 13.1 | 12.1 | 12.7 | 140 | 85 | 115 | 464 | 344 | 372[a] | 456 | 368 | 405[a] |
| 167881 | D-938 | W.F. | 1/11/56 | 1/ 7/56 | 4 | 44.0 | 42.0 | 43.3 | 13.2 | 12.4 | 12.7 | 132 | 84 | 109 | 432 | 296 | 362[a] | 424 | 344 | 383[a] |
| 168045 | D-939 | W.F. | 1/18/56 | 1/12/56 | 4 | 47.0 | 43.4 | 44.2 | 14.3 | 13.2 | 13.8 | 131 | 84 | 106 | 400 | 304 | 349[a] | 448 | 352 | 386[a] |
| 168046 | D-940 | W.F. | 1/18/56 | 1/13/56 | 4 | 45.0 | 42.2 | 44.0 | 14.0 | 12.5 | 13.3 | 134 | 85 | 111 | 384 | 296 | 341[a] | 432 | 320 | 399[a] |
| 168077 | D-941 | W.F. | 1/23/56 | 1/18/56 | 4 | 44.6 | 42.2 | 43.8 | 13.5 | 12.8 | 13.1 | 139 | 95 | 111 | 384 | 312 | 349[a] | 448 | 352 | 383[a] |
| 168078 | D-942 | W.F. | 1/23/56 | 1/19/56 | 4 | 43.8 | 42.2 | 42.8 | 12.7 | 12.1 | 12.4 | 137 | 81 | 112 | 344 | 264 | 303[a] | 424 | 312 | 363[a] |
| Current Mill Average: | | | | | | | | 43.3 | | | 12.8 | | | 111 | | | 343 | | | 382 |
| Cumulative Mill Average: | | | | | | | | 43.2 | | | 12.4 | | | 111 | | | 357 | | | 391 |
| Mill Factor, % | | | | | | | | 100.2 | | | 103.2 | | | 100.0 | | | 96.1 | | | 97.7 |
| Mill Index, % | | | | | | | | 100.7 | | | 100.0 | | | 100.9 | | | 96.9 | | | 99.5 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE VII

MILL E--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167682 | E-195 | WFLS | 1/ 3/56 | 12/29/55 | 2 | 43.6 | 41.6 | 42.6 | 13.9 | 12.9 | 13.5 | 112 | 79 | 102 | 416 | 320 | 367[a] | 416 | 336 | 373[a] |
| 167798 | E-196 | WFLS | 1/ 7/56 | 1/ 3/56 | 2 | 44.2 | 42.2 | 43.0 | 14.8 | 12.7 | 14.0 | 146 | 92 | 110 | 408 | 280 | 334[a] | 416 | 336 | 361[a] |
| Current Mill Average: | | | | | | | | 42.8 | | | 13.7 | | | 106 | | | 351 | | | 367 |
| Cumulative Mill Average: | | | | | | | | 42.8 | | | 13.7 | | | 108 | | | 361 | | | 377 |
| Mill Factor, % | | | | | | | | 100.0 | | | 100.0 | | | 98.1 | | | 97.2 | | | 97.3 |
| Mill Index, % | | | | | | | | 99.5 | | | 107.0 | | | 96.4 | | | 99.2 | | | 95.6 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE VIII

MILL F--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167674 | F-72 | W.B. | 1/ 3/56 | 12/ 2/55 | - | 44.0 | 42.0 | 43.0 | 11.8 | 10.9 | 11.4 | 130 | 90 | 108 | 448 | 320 | 377[a] | 456 | 344 | 394[a] |
| 167675 | F-73 | W.B. | 1/ 3/56 | 12/ 7/55 | - | 44.6 | 41.2 | 42.8 | 12.3 | 11.4 | 11.9 | 114 | 76 | 100 | 424 | 336 | 375[a] | 464 | 408 | 429[a] |
| 167676 | F-74 | W.B. | 1/ 3/56 | 12/ 9/55 | - | 43.2 | 39.2 | 41.1 | 12.8 | 11.0 | 11.7 | 124 | 80 | 101 | 400 | 328 | 354[a] | 440 | 368 | 405[a] |
| 167677 | F-75 | W.B. | 1/ 3/56 | 12/ 9/55 | - | 44.2 | 40.6 | 42.8 | 12.5 | 11.0 | 11.9 | 127 | 87 | 104 | 416 | 352 | 377[a] | 480 | 376 | 423[a] |
| 167678 | F-76 | W.B. | 1/ 3/56 | 12/15/55 | - | 44.0 | 40.8 | 41.8 | 12.1 | 11.1 | 11.7 | 127 | 71 | 101 | 480 | 344 | 381[a] | 496 | 352 | 415[a] |
| 167679 | F-77 | W.B. | 1/ 3/56 | 12/15/55 | - | 45.0 | 41.6 | 43.1 | 12.5 | 11.3 | 11.9 | 117 | 85 | 103 | 408 | 312 | 366[a] | 464 | 384 | 418[a] |
| 168087 | F-1 | W.B. | 1/23/56 | 1/ 3/56 | - | 44.2 | 42.4 | 43.3 | 12.1 | 11.0 | 11.6 | 131 | 95 | 112 | 392 | 320 | 355[a] | 464 | 336 | 383[a] |
| 168088 | F-2 | W.B. | 1/23/56 | 1/ 6/56 | - | 44.0 | 41.2 | 43.1 | 12.3 | 11.2 | 11.8 | 137 | 94 | 109 | 408 | 336 | 371[a] | 456 | 360 | 419[a] |
| 168103 | F-3 | W.B. | 1/24/56 | 1/ 6/56 | - | 43.8 | 40.0 | 42.0 | 12.3 | 10.9 | 11.7 | 129 | 88 | 108 | 432 | 328 | 382[a] | 488 | 360 | 423[a] |
| 168104 | F-4 | W.B. | 1/24/56 | 1/13/56 | - | 44.0 | 40.2 | 43.0 | 12.1 | 11.0 | 11.6 | 131 | 75 | 107 | 456 | 320 | 375[a] | 464 | 352 | 409[a] |
| 168105 | F-5 | W.B. | 1/24/56 | 1/16/56 | - | 44.0 | 41.8 | 43.0 | 12.9 | 11.0 | 11.9 | 123 | 84 | 102 | 464 | 368 | 401[a] | 488 | 384 | 443[a] |
| Current Mill Average: | | | | | | | | 42.6 | | | 11.7 | | | 105 | | | 374 | | | 415 |
| Cumulative Mill Average: | | | | | | | | 42.8 | | | 12.6 | | | 107 | | | 387 | | | 420 |
| Mill Factor, % | | | | | | | | 99.5 | | | 92.9 | | | 98.1 | | | 96.6 | | | 98.8 |
| Mill Index, % | | | | | | | | 99.1 | | | 91.4 | | | 95.5 | | | 105.6 | | | 108.1 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE IX

MILL G--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167943 | G-701 | W.F. | 1/14/56 | 12/28/55 | 2 | 45.2 | 43.6 | 44.3 | 13.2 | 12.3 | 12.8 | 137 | 84 | 113 | 368 | 312 | 334[a] | 448 | 352 | 386[a] |
| 167944 | G-702 | W.F. | 1/14/56 | 12/28/55 | 2 | 45.4 | 43.8 | 44.3 | 13.4 | 12.0 | 12.8 | 135 | 79 | 111 | 392 | 256 | 327[a] | 448 | 336 | 375[a] |
| 167963 | G-703 | W.F. | 1/17/56 | 12/30/55 | 2 | 45.2 | 42.0 | 44.2 | 13.4 | 12.2 | 12.9 | 138 | 95 | 118 | 400 | 296 | 338[a] | 464 | 352 | 384[a] |
| 167964 | G-704 | W.F. | 1/17/56 | 12/30/55 | 2 | 45.4 | 44.0 | 44.7 | 13.0 | 12.0 | 12.5 | 132 | 93 | 112 | 384 | 280 | 331[a] | 392 | 344 | 373[a] |
| 167965 | G-705 | W.F. | 1/17/56 | 12/28/55 | 2 | 44.8 | 42.6 | 43.9 | 13.0 | 12.0 | 12.5 | 149 | 91 | 117 | 368 | 296 | 331 | 432 | 352 | 391[a] |
| 167966 | G-706 | W.F. | 1/17/56 | 12/22/55 | 2 | 44.0 | 41.0 | 42.8 | 12.9 | 10.9 | 12.0 | 128 | 79 | 106 | 320 | 264 | 290[a] | 408 | 320 | 359[a] |
| 167967 | G-707 | W.F. | 1/17/56 | 12/22/55 | 2 | 44.0 | 41.4 | 42.2 | 12.4 | 11.4 | 12.0 | 123 | 80 | 104 | 368 | 280 | 319[a] | 400 | 336 | 355[a] |
| 167968 | G-708 | W.F. | 1/17/56 | 1/10/56 | 2 | 42.2 | 40.8 | 41.5 | 12.5 | 11.4 | 12.0 | 124 | 77 | 104 | 352 | 272 | 303[a] | 376 | 336 | 353[a] |
| 168047 | G-709 | W.F. | 1/18/56 | 1/10/56 | 2 | 42.0 | 40.4 | 41.4 | 12.3 | 11.8 | 12.1 | 123 | 89 | 108 | 336 | 248 | 286 | 376 | 320 | 351[a] |
| 168048 | G-710 | W.F. | 1/18/56 | 1/10/56 | 2 | 42.6 | 41.0 | 41.8 | 12.4 | 11.7 | 12.1 | 127 | 80 | 107 | 352 | 224 | 293[a] | 400 | 336 | 360[a] |
| Current Mill Average: | | | | | | | | 43.1 | | | 12.4 | | | 110 | | | 315 | | | 369 |
| Cumulative Mill Average: | | | | | | | | 43.3 | | | 12.8 | | | 109 | | | 331 | | | 371 |
| Mill Factor, % | | | | | | | | 99.5 | | | 96.9 | | | 100.9 | | | 95.2 | | | 99.5 |
| Mill Index, % | | | | | | | | 100.2 | | | 96.9 | | | 100.0 | | | 89.0 | | | 96.1 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE X

MILL H--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167773 | H-547 | W.F.[b] | 1/ 6/56 | 12/18/55 | 2 | 44.0 | 43.0 | 43.7 | 12.5 | 11.6 | 12.1 | 146 | 93 | 118 | 432 | 328 | 383[a] | 400 | 336 | 386[a] |
| 167774 | H-548 | W.F.[b] | 1/ 6/56 | 12/20/55 | 2 | 43.2 | 41.6 | 42.2 | 12.8 | 12.0 | 12.3 | 132 | 92 | 110 | 432 | 272 | 336 | 416 | 336 | 381[a] |
| 167775 | H-549 | W.F.[b] | 1/ 6/56 | 12/28/55 | 2 | 43.2 | 42.0 | 42.4 | 13.5 | 12.5 | 13.1 | 138 | 74 | 111 | 376 | 312 | 344 | 408 | 344 | 375[a] |
| 167776 | H-550 | W.F.[b] | 1/ 6/56 | 12/29/55 | 2 | 44.0 | 42.2 | 43.1 | 13.2 | 12.4 | 12.9 | 136 | 83 | 111 | 408 | 320 | 359[a] | 488 | 376 | 407[a] |
| 167972 | H-551 | W.F.[b] | 1/17/56 | 1/ 2/56 | 2 | 43.6 | 42.4 | 43.0 | 12.3 | 11.5 | 11.9 | 127 | 98 | 112 | 424 | 264 | 358 | 464 | 368 | 410[a] |
| 167973 | H-552 | W.F.[b] | 1/17/56 | 1/ 3/56 | 2 | 44.0 | 42.2 | 43.0 | 12.9 | 12.0 | 12.3 | 130 | 86 | 108 | 416 | 304 | 367[a] | 432 | 344 | 383[a] |
| 167974 | H-553 | W.F.[b] | 1/17/56 | 1/ 8/56 | 2 | 44.6 | 43.4 | 43.8 | 12.7 | 11.8 | 12.3 | 141 | 96 | 118 | 424 | 288 | 377[a] | 456 | 360 | 395[a] |
| 167975 | H-554 | W.F.[b] | 1/17/56 | 1/ 9/56 | 2 | 43.0 | 42.0 | 42.2 | 12.9 | 11.9 | 12.2 | 145 | 95 | 115 | 400 | 304 | 340[a] | 408 | 336 | 375[a] |
| Current Mill Average: | | | | | | | | 42.9 | | | 12.4 | | | 113 | | | 358 | | | 389 |
| Cumulative Mill Average: | | | | | | | | 42.7 | | | 12.2 | | | 109 | | | 360 | | | 387 |
| Mill Factor, % | | | | | | | | 100.5 | | | 101.6 | | | 103.7 | | | 99.4 | | | 100.5 |
| Mill Index, % | | | | | | | | 99.8 | | | 96.9 | | | 102.7 | | | 101.1 | | | 101.3 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.
[b]The mill data sheet identifies the finish as WFlS.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued

TABLE XI

MILL I--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167680 | I-516 | WF1S | 1/ 3/56 | 12/17/55 | 1 | 44.4 | 42.0 | 43.3 | 13.0 | 11.5 | 12.2 | 126 | 87 | 104 | 384 | 280 | 330[a] | 408 | 336 | 371[a] |
| 167720 | I-517 | WF1S | 1/ 4/56 | 12/28/55 | 1 | 44.0 | 42.0 | 43.2 | 12.6 | 11.7 | 12.1 | 124 | 81 | 107 | 384 | 248 | 296 | 400 | 304 | 351[a] |
| 167947 | I-518 | WF1S | 1/16/56 | 1/ 5/56 | 1 | 44.2 | 42.0 | 42.9 | 12.5 | 11.9 | 12.1 | 125 | 91 | 110 | 352 | 256 | 307 | 424 | 328 | 388[a] |
| 167948 | I-519 | WF1S | 1/16/56 | 1/ 9/56 | 1 | 44.0 | 42.0 | 43.0 | 12.5 | 11.7 | 12.1 | 124 | 92 | 108 | 432 | 304 | 335[a] | 464 | 352 | 402[a] |
| 168066 | I-520 | WF1S | 1/21/56 | 1/11/56 | 1 | 44.4 | 42.2 | 43.1 | 13.6 | 12.8 | 13.1 | 129 | 84 | 111 | 384 | 256 | 311[a] | 416 | 320 | 369[a] |
| 168067 | I-521 | WF1S | 1/21/56 | 1/12/56 | 1 | 44.2 | 42.6 | 43.7 | 13.7 | 12.9 | 13.1 | 135 | 87 | 112 | 352 | 264 | 314 | 432 | 328 | 393[a] |
| 168102 | I-522 | WF1S | 1/24/56 | 1/17/56 | 1 | 43.8 | 41.4 | 42.8 | 13.0 | 12.0 | 12.7 | 129 | 84 | 106 | 384 | 288 | 318[a] | 456 | 352 | 391[a] |
| Current Mill Average: | | | | | | | | 43.1 | | | 12.5 | | | 108 | | | 316 | | | 381 |
| Cumulative Mill Average: | | | | | | | | 42.5 | | | 12.3 | | | 107 | | | 315 | | | 370 |
| Mill Factor, % | | | | | | | | 101.4 | | | 101.6 | | | 100.9 | | | 100.3 | | | 103.0 |
| Mill Index, % | | | | | | | | 100.2 | | | 97.7 | | | 98.2 | | | 89.3 | | | 99.2 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XII

MILL J--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167688 | J-573 | W.F. | 1/ 3/56 | 12/21/55 | - | 44.6 | 42.0 | 43.7 | 13.8 | 12.5 | 13.1 | 117 | 82 | 104 | 448 | 368 | 395[a] | 400 | 328 | 371[a] |
| 167689 | J-574 | W.F. | 1/ 3/56 | 12/21/55 | - | 44.6 | 42.0 | 43.5 | 13.8 | 12.1 | 13.0 | 126 | 82 | 107 | 408 | 336 | 367[a] | 416 | 344 | 378[a] |
| 167807 | J-575 | W.F. | 1/ 9/56 | 1/ 2/56 | - | 42.4 | 40.0 | 41.6 | 12.9 | 11.9 | 12.4 | 124 | 98 | 109 | 408 | 304 | 347[a] | 400 | 320 | 348 |
| 167808 | J-576 | W.F. | 1/ 9/56 | 1/ 3/56 | - | 44.0 | 42.0 | 42.5 | 13.0 | 12.0 | 12.5 | 130 | 80 | 108 | 400 | 320 | 361[a] | 424 | 320 | 367[a] |
| Current Mill Average: | | | | | | | | 42.8 | | | 12.8 | | | 107 | | | 367 | | | 366 |
| Cumulative Mill Average: | | | | | | | | 42.7 | | | 12.9 | | | 112 | | | 369 | | | 375 |
| Mill Factor, % | | | | | | | | 100.2 | | | 99.2 | | | 95.5 | | | 99.5 | | | 97.6 |
| Mill Index, % | | | | | | | | 99.5 | | | 100.0 | | | 97.3 | | | 103.7 | | | 95.3 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XIII

MILL K--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167772 | K-1 | S.F. | 1/ 6/56 | 1/ 2/56 | 7 | 45.6 | 40.4 | 43.2 | 13.2 | 12.2 | 12.9 | 128 | 83 | 103 | 448 | 352 | 381[a] | 432 | 368 | 387[a] |
| 168062 | K-2 | S.F. | 1/20/56 | 1/11/56 | 7 | 45.8 | 42.0 | 44.2 | 14.0 | 13.0 | 13.6 | 134 | 83 | 107 | 448 | 352 | 385[a] | 424 | 368 | 383[a] |
| 168085 | K-3 | S.F. | 1/23/56 | 1/18/56 | 7 | 45.6 | 43.4 | 44.4 | 14.8 | 13.8 | 14.3 | 129 | 82 | 106 | 416 | 312 | 360[a] | 424 | 344 | 377[a] |
| Current Mill Average: | | | | | | | | 43.9 | | | 13.6 | | | 105 | | | 376 | | | 382 |
| Cumulative Mill Average: | | | | | | | | 43.7 | | | 13.0 | | | 106 | | | 396 | | | 402 |
| Mill Factor, % | | | | | | | | 100.5 | | | 104.6 | | | 99.1 | | | 94.9 | | | 95.0 |
| Mill Index, % | | | | | | | | 102.1 | | | 106.2 | | | 95.5 | | | 106.2 | | | 99.5 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XIV

MILL L--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167670 | L-415 | | 1/ 3/56 | 12/ 2/55 | 1 | 43.4 | 41.2 | 42.1 | 13.2 | 11.7 | 12.5 | 134 | 84 | 104 | 368 | 288 | 320[a] | 392 | 312 | 362[a] |
| 167671 | L-416 | | 1/ 3/56 | 12/ 5/55 | 1 | 44.0 | 42.2 | 43.3 | 14.2 | 12.5 | 13.4 | 123 | 84 | 107 | 384 | 296 | 339[a] | 400 | 344 | 375[a] |
| 167672 | L-417 | | 1/ 3/56 | 12/ 8/55 | 1 | 44.2 | 41.6 | 43.2 | 14.3 | 12.7 | 13.4 | 130 | 87 | 110 | 392 | 288 | 343[a] | 456 | 360 | 399[a] |
| 167673 | L-418 | | 1/ 3/56 | 12/13/55 | 1 | 45.6 | 42.0 | 43.5 | 13.8 | 11.7 | 12.6 | 128 | 74 | 107 | 352 | 288 | 320[a] | 408 | 336 | 386[a] |
| 167683 | L-419 | | 1/ 3/56 | 12/17/55 | 1 | 44.2 | 42.4 | 43.4 | 14.3 | 12.8 | 13.5 | 137 | 90 | 110 | 368 | 320 | 344[a] | 416 | 360 | 386[a] |
| 167684 | L-420 | | 1/ 3/56 | 12/19/55 | 1 | 44.4 | 42.4 | 43.4 | 13.1 | 11.4 | 12.3 | 124 | 84 | 107 | 352 | 296 | 327[a] | 392 | 320 | 367[a] |
| 168079 | L-421 | | 1/23/56 | 12/22/55 | 1 | 43.8 | 41.0 | 42.0 | 13.7 | 12.2 | 12.9 | 133 | 78 | 116 | 352 | 296 | 320[a] | 400 | 320 | 371[a] |
| 168080 | L-422 | | 1/23/56 | 12/29/55 | 1 | 42.6 | 40.4 | 41.5 | 14.0 | 12.2 | 13.2 | 148 | 105 | 115 | 376 | 296 | 326[a] | 416 | 336 | 371[a] |
| 168081 | L-423 | | 1/23/56 | 1/ 3/56 | 1 | 43.8 | 40.6 | 42.0 | 13.9 | 12.3 | 13.2 | 149 | 87 | 115 | 360 | 304 | 340[a] | 416 | 328 | 375[a] |
| 168082 | L-424 | | 1/23/56 | 1/ 6/56 | 1 | 44.0 | 40.8 | 42.0 | 13.3 | 12.0 | 12.8 | 131 | 89 | 117 | 360 | 280 | 328[a] | 400 | 328 | 361[a] |
| Current Mill Average: | | | | | | | | 42.6 | | | 13.0 | | | 111 | | | 331 | | | 375 |
| Cumulative Mill Average: | | | | | | | | 42.9 | | | 13.3 | | | 110 | | | 337 | | | 376 |
| Mill Factor, % | | | | | | | | 99.3 | | | 97.7 | | | 100.9 | | | 98.2 | | | 99.7 |
| Mill Index, % | | | | | | | | 99.1 | | | 101.6 | | | 100.9 | | | 93.5 | | | 97.7 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XV

MILL M--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167667 | M-356 | W. | 1/ 3/56 | 12/13/55 | 2 | 44.4 | 41.2 | 43.3 | 13.6 | 12.8 | 13.1 | 126 | 92 | 111 | 376 | 272 | 347[a] | 456 | 336 | 385[a] |
| 167685 | M-357 | W. | 1/ 3/56 | 12/23/55 | 2 | 44.2 | 41.8 | 43.2 | 14.0 | 13.1 | 13.6 | 123 | 95 | 112 | 376 | 272 | 329[a] | 432 | 344 | 379[a] |
| 167739 | M-358 | W. | 1/ 5/56 | 12/29/55 | 4 | 44.6 | 42.0 | 43.8 | 14.0 | 13.0 | 13.4 | 130 | 103 | 117 | 424 | 368 | 392[a] | 456 | 384 | 420[a] |
| 167969 | M-359 | W. | 1/17/56 | 1/ 6/56 | 4 | 44.0 | 42.4 | 43.6 | 13.6 | 13.0 | 13.3 | 130 | 95 | 113 | 432 | 352 | 387[a] | 432 | 368 | 400[a] |
| 168135 | M-360 | W. | 1/26/56 | 1/12/56 | 2 | 44.8 | 41.6 | 42.7 | 13.3 | 12.2 | 12.8 | 142 | 100 | 119 | 376 | 288 | 332[a] | 424 | 360 | 387[a] |
| Current Mill Average: | | | | | | | | 43.4 | | | 13.3 | | | 114 | | | 357 | | | 394 |
| Cumulative Mill Average: | | | | | | | | 43.1 | | | 13.3 | | | 108 | | | 365 | | | 384 |
| Mill Factor, % | | | | | | | | 100.7 | | | 100.0 | | | 105.6 | | | 97.8 | | | 102.6 |
| Mill Index, % | | | | | | | | 100.9 | | | 103.9 | | | 103.6 | | | 100.8 | | | 102.6 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XVI

MILL N--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167665 | N-177 | WF1S | 1/ 3/56 | 12/17/55 | 1 | 43.8 | 41.6 | 42.5 | 13.0 | 11.9 | 12.4 | 127 | 91 | 111 | 392 | 312 | 349[a] | 440 | 360 | 394[a] |
| 167666 | N-178 | WF1S | 1/ 3/56 | 12/16/55 | 1 | 42.2 | 40.4 | 41.7 | 13.1 | 11.1 | 12.2 | 131 | 94 | 106 | 440 | 264 | 341[a] | 432 | 360 | 400[a] |
| 167941 | N-179 | WF1S | 1/14/56 | 1/ 1/56 | 1 | 44.8 | 43.4 | 43.8 | 13.4 | 12.3 | 12.8 | 125 | 100 | 112 | 392 | 328 | 362[a] | 456 | 360 | 405[a] |
| 167942 | N-180 | WF1S | 1/14/56 | 1/ 1/56 | 1 | 42.8 | 41.0 | 42.0 | 12.9 | 11.5 | 12.1 | 121 | 81 | 105 | 432 | 304 | 354[a] | 480 | 352 | 412[a] |
| 167962 | N-181 | ---- | 1/17/56 | 1/10/56 | 1 | 42.6 | 41.6 | 42.0 | 13.0 | 12.2 | 12.6 | 142 | 93 | 116 | 416 | 304 | 363[a] | 464 | 384 | 424[a] |
| 168061 | N-182 | WF1S | 1/20/56 | 1/11/56 | 1 | 43.0 | 42.2 | 42.5 | 13.5 | 12.1 | 12.8 | 133 | 91 | 110 | 416 | 328 | 371[a] | 464 | 360 | 418[a] |
| Current Mill Average: | | | | | | | | 42.4 | | | 12.5 | | | 110 | | | 357 | | | 409 |
| Cumulative Mill Average: | | | | | | | | 42.0 | | | 11.9 | | | 109 | | | 354 | | | 390 |
| Mill Factor, % | | | | | | | | 101.0 | | | 105.0 | | | 100.9 | | | 100.8 | | | 104.9 |
| Mill Index, % | | | | | | | | 98.6 | | | 97.7 | | | 100.0 | | | 100.8 | | | 106.5 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

TABLE XVII

MILL O--42-LB. LINERBOARD

No samples submitted.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XVIII

MILL P--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167709 | P-138 | W.F. | 1/ 4/56 | 12/19/55 | - | 45.0 | 41.8 | 43.0 | 13.0 | 11.6 | 12.4 | 138 | 86 | 108 | 416 | 312 | 368[a] | 496 | 368 | 414[a] |
| 167710 | P-139 | W.F. | 1/ 4/56 | 12/19/55 | - | 43.4 | 40.6 | 42.5 | 12.7 | 11.8 | 12.2 | 134 | 88 | 112 | 416 | 336 | 364[a] | 424 | 336 | 388[a] |
| 167711 | P-140 | W.F. | 1/ 4/56 | 12/19/55 | - | 43.6 | 41.0 | 42.5 | 12.9 | 11.6 | 12.1 | 134 | 85 | 111 | 416 | 304 | 343[a] | 416 | 328 | 380[a] |
| 167712 | P-141 | W.F. | 1/ 4/56 | 12/19/55 | - | 43.6 | 40.8 | 42.1 | 13.0 | 11.5 | 12.3 | 151 | 89 | 109 | 400 | 288 | 345[a] | 400 | 328 | 367[a] |
| 167713 | P-142 | W.F. | 1/ 4/56 | 12/21/55 | - | 45.2 | 41.2 | 43.2 | 13.4 | 11.8 | 12.6 | 117 | 88 | 107 | 376 | 304 | 337[a] | 376 | 328 | 357[a] |
| 167714 | P-143 | W.F. | 1/ 4/56 | 12/21/55 | - | 42.4 | 40.8 | 41.6 | 12.7 | 11.4 | 12.1 | 120 | 81 | 102 | 384 | 288 | 328[a] | 376 | 320 | 361[a] |
| Current Mill Average: | | | | | | | | 42.5 | | | 12.3 | | | 108 | | | 348 | | | 378 |
| Cumulative Mill Average: | | | | | | | | 43.4 | | | 12.5 | | | 112 | | | 375 | | | 395 |
| Mill Factor, % | | | | | | | | 97.9 | | | 98.4 | | | 96.4 | | | 92.8 | | | 95.7 |
| Mill Index, % | | | | | | | | 98.8 | | | 96.1 | | | 98.2 | | | 98.3 | | | 98.4 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XIX

MILL Q--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| 167686 | Q-49 | WF1S | 1/ 3/56 | 12/21/55 | - | 46.0 | 44.0 | 44.8 | 15.4 | 14.3 | 14.8 | 112 | 71 | 93 | 400 | 288 | 351[a] | 432 | 368 | 409[a] |
| 167687 | Q-50 | WF1S | 1/ 3/56 | 12/23/55 | - | 45.2 | 43.4 | 44.2 | 15.3 | 13.1 | 14.5 | 123 | 75 | 101 | 400 | 272 | 332[a] | 416 | 344 | 391[a] |
| 167719 | Q-51 | WF1S | 1/ 4/56 | 12/28/55 | 3 | 44.0 | 41.8 | 42.6 | 14.0 | 12.8 | 13.4 | 126 | 76 | 101 | 368 | 272 | 313[a] | 384 | 328 | 353[a] |
| 168083 | Q-52 | WF1S | 1/23/56 | 1/18/56 | 3 | 46.4 | 43.6 | 44.5 | 15.8 | 14.2 | 15.0 | 122 | 73 | 102 | 400 | 320 | 347[a] | 392 | 352 | 374[a] |
| 168084 | Q-53 | WF1S | 1/23/56 | 1/19/56 | 3 | 45.0 | 41.0 | 42.9 | 15.1 | 13.9 | 14.4 | 134 | 85 | 106 | 376 | 280 | 335 | 400 | 328 | 363[a] |
| Current Mill Average: | | | | | | | | 43.8 | | | 14.4 | | | 101 | | | 336 | | | 378 |
| Cumulative Mill Average: | | | | | | | | 42.5 | | | 13.3 | | | 109 | | | 341 | | | 378 |
| Mill Factor, % | | | | | | | | 103.1 | | | 108.3 | | | 92.7 | | | 98.5 | | | 100.0 |
| Mill Index, % | | | | | | | | 101.9 | | | 112.5 | | | 91.8 | | | 94.9 | | | 98.4 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

SUMMARY OF INSTITUTE DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XX

MILL E--MISCELLANEOUS

| File No. | Mill Code | Finish | Date Recd. | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. | Max. | Min. | Av. |
| **47-lb. Drum Linerboard** | | | | | | | | | | | | | | | | | | | | |
| 167946 | E-199 | W.F. | 1/16/56 | 1/13/56 | 2 | 49.8 | 46.4 | 47.4 | 14.5 | 13.8 | 14.1 | 110 | 83 | 94 | 408 | 296 | 353[a] | 448 | 336 | 372[a] |
| Current Mill Average: | | | | | | | | 47.4 | | | 14.1 | | | 94 | | | 353 | | | 372 |
| Cumulative Mill Average: | | | | | | | | 46.9 | | | 14.2 | | | 101 | | | 395 | | | 402 |
| Mill Factor, % | | | | | | | | 101.1 | | | 99.3 | | | 93.1 | | | 89.4 | | | 92.5 |
| **33-lb. Linerboard** | | | | | | | | | | | | | | | | | | | | |
| 168086 | E-200 | W.F. | 1/23/56 | 1/19/56 | 2 | 34.6 | 32.6 | 33.9 | 10.6 | 9.7 | 10.2 | 100 | 55 | 78 | 296 | 192 | 258 | 304 | 232 | 255[a] |
| **38-lb. Linerboard** | | | | | | | | | | | | | | | | | | | | |
| 167945 | E-198 | WFlS | 1/16/56 | 1/11/56 | 2 | 39.0 | 36.4 | 37.4 | 12.0 | 10.8 | 11.4 | 106 | 64 | 93 | 360 | 272 | 313[a] | 320 | 248 | 271[a] |
| **45-lb. Linerboard** | | | | | | | | | | | | | | | | | | | | |
| 167681 | E-194 | WFlS | 1/ 3/56 | 12/27/55 | 2 | 47.6 | 45.4 | 46.8 | 15.1 | 14.0 | 14.5 | 121 | 92 | 107 | 408 | 320 | 366[a] | 472 | 344 | 397[a] |
| **69-lb. Linerboard** | | | | | | | | | | | | | | | | | | | | |
| 167799 | E-197 | W.F. | 1/ 7/56 | 1/ 4/56 | 2 | 70.2 | 68.0 | 68.6 | 21.5 | 19.2 | 20.5 | 183 | 107 | 149 | 624 | 464 | 538[a] | 744 | 552 | 614[a] |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

As a supplementary part of the Continuous Baseline Study, comparison of the mill test results with those obtained at The Institute of Paper Chemistry on corresponding samples have been included in this report. As may be noted in Table XXI, the atmospheric conditions used prior to and during the testing period varied considerably.

TABLE XXI

| | Preconditioning | | | Conditioning | | |
|---|---|---|---|---|---|---|
| Code | R.H., % | Temp., °F. | Time, hr. | R.H., % | Temp., °F. | Time, hr. |
| A | | None | | 50-52 | 72-73 | 24 |
| B | 42-86 | 48-78 | 0.5 | 50 | 70 | 24-48 |
| C | 50 | 73 | 24-216 | 50 | 73 | 24-216 |
| D | 36 | 78 | 8 | 50-52 | 71-72 | 16 |
| E | | None | | 62-80 | 50-88 | -- |
| F | | None | | 47-53 | 71-72 | 48 |
| G | | None | | 50 | 73 | 24 |
| H | | None | | 50 | 73 | 24 |
| I | 49-52 | 68-70 | -- | 50-51 | 66-70 | -- |
| J | | None | | 50 | 73 | 0.5 |
| K | 50 | 73 | 24 | 50 | 73 | -- |
| L | | None | | 28-58 | 75-85 | -- |
| M | | None | | 31-47 | 72-76 | -- |
| N | 50 | 73 | 24 | 50 | 73 | 24 |
| O | | No samples submitted. | | | | |
| P | 50 | 73 | 24-48 | 50 | 73 | 48 |
| Q | 48-56 | 72-74 | 5-24 | 48-54 | 70-74 | 1-2 |

A summary of the mill comparisons for the current period as compared with the previous period may be seen in Tables XXII and XXIII, respectively. The comparison for the various mills is given in Tables XXIV to XXXX, for the 42-lb. liner samples. A comparison of the special drum stock is given in Table XLI. In all the comparisons given in Tables XXII to XLI, the Institute's test values have been used as the reference line.

A comparison of the test data in Tables XXII and XXIII indicates that agreement between the mill and Institute data is good in the majority of cases. Table XXII shows the average difference encountered in the comparison of Institute and mill test results for the sample lots submitted by each mill for the current period, as well as the maximum difference encountered in comparing the Institute and mill test results for a given sample lot. In Table XXIII, the average differences shown for each test in Table XXII have been calculated on a percentage basis for each mill. In addition, for purposes of comparison, the average percentage differences for the preceding two periods are shown.

It may be noted in Table XXIII that the maximum variation between the average basis weight results of the Institute and those of a given mill on corresponding samples is one per cent for the current period. This maximum percentage variation agrees favorably with the corresponding variations for the previous periods. Further, it may be noted that the average basis weight results for Mills A, C, E, F, I, J, L, M, and Q are lower than those for the Institute, the average results for Mills B, D, G, H, N, and P are higher and the average result for Mill K is the same. In general, the agreement between Institute and mill basis weight results is very good for all mills.

The maximum variation in caliper for the current period is seven per cent. Compared with the values for the Institute, the average result for Mill B is the same, and the average results for the other mills are lower. The accord between Institute and mill caliper values is good with the exception of Mills E, L, M, and Q.

It may be noted in Table XXIII that the bursting strength results exhibit a maximum variation of five per cent for the current period. The average results for Mills B, C, E, I, K, and N are higher than those for the Institute, the results for Mills A, F, H, P, and Q are the same, and the results for the other mills are lower. The agreement in bursting strength results is good for all mills.

It may be seen in Tables XXII and XXIII that the average machine direction tear results for Mills B, D, F, G, I, N, and P are higher than those for the Institute, and the results for the other mills are lower. The maximum variation for the current period is nineteen per cent. The differences encountered for Mills C, E, G, H, L, and M appear to be excessive.

With regard to the cross-machine direction tear results, it may be noted that the average results for Mills B, D, F, G, I, J, K, N, and P are higher than those for the Institute, and the average results for the other mills are lower. The maximum variation for the current period is fourteen per cent. Only the differences for Mills G and N appear to be excessive.

## TABLE XXII

### SUMMARY OF TEST RESULT COMPARISONS
(Average Mill and Institute Results)

| | Mills* | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | P | Q |
| No. of Samples Compared | 10 | 8 | 3 | 10 | 2 | 11 | 10 | 8 | 7 | 4 | 3 | 10 | 5 | 6 | 6 | 5 |
| **Basis Weight** | | | | | | | | | | | | | | | | |
| Institute | 43.1 | 42.6 | 43.1 | 43.3 | 42.8 | 42.6 | 43.1 | 42.9 | 43.1 | 42.8 | 43.9 | 42.6 | 43.4 | 42.4 | 42.5 | 43.8 |
| Mill | 42.7 | 42.9 | 42.5 | 43.7 | 42.4 | 42.5 | 43.4 | 43.2 | 42.6 | 42.6 | 43.9 | 42.0 | 42.9 | 42.6 | 43.0 | 43.3 |
| Av. Diff.** | -0.4 | +0.3 | -0.6 | +0.4 | -0.4 | -0.1 | +0.3 | +0.3 | -0.5 | -0.2 | 0.0 | -0.6 | -0.5 | +0.2 | +0.5 | -0.5 |
| Max. Diff.*** | -0.9 | +0.6 | -0.8 | +1.3 | -0.6 | -0.8 | +0.8 | +0.7 | -1.1 | -0.7 | -0.6 | -1.6 | -0.6 | +0.6 | +2.0 | -0.8 |
| **Caliper** | | | | | | | | | | | | | | | | |
| Institute | 12.4 | 11.9 | 13.4 | 12.8 | 13.7 | 11.7 | 12.4 | 12.4 | 12.5 | 12.8 | 13.6 | 13.0 | 13.3 | 12.5 | 12.3 | 14.4 |
| Mill | 12.0 | 11.9 | 13.0 | 12.4 | 12.8 | 11.4 | 12.1 | 12.1 | 12.2 | 12.3 | 13.1 | 12.4 | 12.6 | 12.1 | 11.9 | 13.6 |
| Av. Diff.** | -0.4 | 0.0 | -0.4 | -0.4 | -0.9 | -0.3 | -0.3 | -0.3 | -0.3 | -0.5 | -0.5 | -0.6 | -0.7 | -0.4 | -0.4 | -0.8 |
| Max. Diff.*** | -0.9 | +0.2 | -0.6 | -0.7 | -1.0 | -0.6 | -0.4 | -1.0 | -0.7 | -0.5 | -0.8 | -0.9 | -0.9 | -0.5 | -0.8 | -1.0 |
| **Bursting Strength** | | | | | | | | | | | | | | | | |
| Institute | 112 | 119 | 102 | 111 | 106 | 105 | 110 | 113 | 108 | 107 | 105 | 111 | 114 | 110 | 108 | 101 |
| Mill | 112 | 120 | 107 | 110 | 108 | 105 | 109 | 113 | 110 | 104 | 107 | 108 | 113 | 112 | 108 | 101 |
| Av. Diff.** | 0 | +1 | +5 | -1 | +2 | 0 | -1 | 0 | +2 | -3 | +2 | -3 | -1 | +2 | 0 | 0 |
| Max. Diff.*** | -9 | +7 | +9 | -6 | +8 | +7 | -5 | +5 | +5 | -5 | +4 | -8 | -5 | +6 | -4 | +4 |
| **Tearing Strength, in** | | | | | | | | | | | | | | | | |
| Institute | 321 | 307 | 321 | 343 | 351 | 374 | 315 | 358 | 316 | 367 | 376 | 331 | 357 | 357 | 348 | 336 |
| Mill | 303 | 308 | 261 | 353 | 291 | 383 | 358 | 306 | 330 | 348 | 348 | 294 | 311 | 376 | 374 | 332 |
| Av. Diff.** | -18 | +1 | -60 | +10 | -60 | +9 | +43 | -52 | +14 | -19 | -28 | -37 | -46 | +19 | +26 | -4 |
| Max. Diff.*** | -45 | +25 | -76 | +55 | -71 | +41 | +32 | -68 | +61 | -71 | -38 | -85 | -73 | +55 | +46 | ±24 |
| **Tearing Strength, across** | | | | | | | | | | | | | | | | |
| Institute | 373 | 354 | 355 | 382 | 367 | 415 | 369 | 389 | 381 | 366 | 382 | 375 | 394 | 409 | 378 | 378 |
| Mill | 369 | 376 | 332 | 383 | 340 | 426 | 421 | 354 | 388 | 381 | 390 | 361 | 356 | 467 | 335 | 377 |
| Av. Diff.** | -4 | +22 | -23 | +1 | -27 | +11 | +52 | -35 | +7 | +15 | +8 | -14 | -38 | +58 | +7 | -1 |
| Max. Diff.*** | -20 | +54 | -44 | -33 | -29 | +39 | +67 | -50 | +34 | +40 | +17 | -63 | -55 | +81 | +18 | +24 |

* Comparison based on averages involved only those samples on which mill test data were submitted.
** Average difference is the difference between the Institute mill average and the mill average based on mill test data.
*** Maximum difference encountered in comparing the Institute average and the mill average for any sample submitted by that particular mill.

TABLE XXIII

COMPARISON OF INSTITUTE-MILL DIFFERENCES BY PERIODS

| Mill | Period | Difference, per cent: Basis Weight | Caliper | Bursting Strength | Tearing Strength, In | Across |
|---|---|---|---|---|---|---|
| A | Current | -0.9 | -3 | 0 | -6 | -1 |
| | 102nd | -1 | -0.8 | -0.9 | -4 | -2 |
| | 101st | -2 | -2 | -2 | -5 | -4 |
| B | Current | +0.7 | 0 | +0.8 | +0.3 | +6 |
| | 102nd | -0.5 | +2 | +3 | -1 | +6 |
| | 101st | -0.5 | 0 | +2 | -1 | +5 |
| C | Current | -1 | -3 | +5 | -19 | -6 |
| | 102nd | -0.7 | -4 | +6 | -13 | -3 |
| | 101st | -0.2 | -0.8 | +3 | -6 | +3 |
| D | Current | +0.9 | -3 | -0.9 | +3 | +0.3 |
| | 102nd | +1 | -2 | -4 | +1 | +1 |
| | 101st | +0.5 | -2 | -4 | -4 | -3 |
| E | Current | -0.9 | -7 | +2 | -17 | -7 |
| | 102nd | -0.5 | -7 | +7 | -12 | -4 |
| | 101st | -0.5 | -10 | +7 | -10 | -0.8 |
| F | Current | -0.2 | -3 | 0 | +2 | +3 |
| | 102nd | -1 | -3 | -3 | 0 | +3 |
| | 101st | -0.2 | -3 | -0.9 | +9 | +10 |
| G | Current | +0.7 | -2 | -0.9 | +14 | +14 |
| | 102nd | -1 | -2 | -3 | +19 | +14 |
| | 101st | -1 | -3 | -0.9 | +15 | +7 |
| H | Current | +0.7 | -2 | 0 | -15 | -9 |
| | 102nd | +2 | -0.8 | 0 | -7 | +6 |
| | 101st | +1 | -0.8 | +0.9 | -6 | -4 |
| I | Current | -1 | -2 | +2 | +4 | +2 |
| | 102nd | -0.7 | -0.8 | +4 | +3 | +5 |
| | 101st | -1 | -0.8 | +1 | +0.9 | +5 |
| J | Current | -0.5 | -4 | -3 | -5 | +4 |
| | 102nd | -0.9 | -4 | -3 | -11 | -4 |
| | 101st | -1 | -4 | -5 | -9 | -0.5 |
| K | Current | 0 | -4 | +2 | -7 | +2 |
| | 102nd | -2 | -4 | -0.9 | -8 | +0.7 |
| | 101st | -1 | -3 | +4 | -5 | +2 |
| L | Current | -1 | -5 | -3 | -11 | -4 |
| | 102nd | -1 | -4 | -3 | -13 | -7 |
| | 101st | -2 | -3 | -3 | -6 | -2 |
| M | Current | -1 | -5 | -0.9 | -13 | -10 |
| | 102nd | -2 | -7 | +0.9 | -11 | -9 |
| | 101st | -0.7 | -4 | 0 | +2 | -3 |
| N | Current | +0.5 | -3 | +2 | +5 | +14 |
| | 102nd | -0.9 | -2 | -3 | +4 | +14 |
| | 101st | -0.5 | -2 | +0.9 | +9 | +17 |
| O | Current | -- | -- | -- | -- | -- |
| | 102nd | +0.7 | -2 | -4 | -6 | -2 |
| | 101st | +0.5 | -2 | +2 | -8 | -0.5 |
| P | Current | +1 | -3 | 0 | +7 | +2 |
| | 102nd | 0 | -2 | -3 | +6 | 0 |
| | 101st | -0.9 | -4 | -3 | +7 | +0.3 |
| Q | Current | -1 | -6 | 0 | -1 | -0.3 |
| | 102nd | -1 | -4 | +1 | +3 | +6 |
| | 101st | -3 | -4 | +4 | 0 | +4 |

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956

TABLE XXIV

MILL A--42-IB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| 167715 | A-716 | W.F. | 12/30/55 | 2 | 43.9 | 43.2 | -0.7 | 12.5 | 12.1 | -0.4 | 110 | 111 | +1 | 341[a] | 313 | -28 | 381[a] | 375 | - 6 |
| 167716 | A-717 | W.F. | 12/31/55 | 2 | 43.9 | 43.0 | -0.9 | 13.0 | 12.1 | -0.9 | 109 | 111 | +2 | 334 | 289 | -45 | 365[a] | 363 | - 2 |
| 167882 | A-718 | W.F. | 1/ 2/56 | 1 | 43.1 | 43.0 | -0.1 | 12.4 | 11.9 | -0.5 | 111 | 110 | -1 | 332[a] | 318 | -14 | 381[a] | 378 | - 3 |
| 167883 | A-719 | W.F. | 1/ 3/56 | 1 | 43.4 | 43.1 | -0.3 | 12.4 | 12.0 | -0.4 | 107 | 108 | +1 | 331[a] | 302 | -29 | 364[a] | 368 | + 4 |
| 167960 | A-720 | W.F. | 1/ 8/56 | 2 | 42.9 | 42.5 | -0.4 | 12.1 | 11.9 | -0.2 | 121 | 115 | -6 | 291 | 294 | + 3 | 365[a] | 369 | + 4 |
| 167961 | A-721 | W.F. | 1/ 9/56 | 2 | 43.3 | 42.7 | -0.6 | 12.2 | 11.8 | -0.4 | 123 | 114 | -9 | 316[a] | 287 | -29 | 383[a] | 363 | -20 |
| 168064 | A-722 | W.F. | 1/16/56 | 1 | 43.0 | 42.5 | -0.5 | 12.4 | 12.0 | -0.4 | 108 | 111 | +3 | 342[a] | 325 | -17 | 380[a] | 373 | - 7 |
| 168065 | A-723 | W.F. | 1/16/56 | 1 | 43.0 | 42.7 | -0.3 | 12.5 | 12.0 | -0.5 | 109 | 112 | +3 | 326[a] | 315 | -11 | 382[a] | 371 | -11 |
| 168138 | A-724 | W.F. | 1/23/56 | 2 | 42.6 | 42.4 | -0.2 | 12.4 | 12.0 | -0.4 | 111 | 113 | +2 | 305[a] | 290 | -15 | 364[a] | 364 | 0 |
| 168139 | A-725 | W.F. | 1/23/56 | 1 | 42.2 | 42.3 | +0.1 | 12.2 | 12.0 | -0.2 | 108 | 113 | +5 | 296[a] | 299 | + 3 | 369[a] | 366 | - 3 |
| Current Mill Average: | | | | | 43.1 | 42.7 | -0.4 | 12.4 | 12.0 | -0.4 | 112 | 112 | 0 | 321 | 303 | -18 | 373 | 369 | - 4 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XXV

MILL B--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| 167668 | B-1258 | W.F. | 12/20/55 | 1 | 42.6 | 42.9 | +0.3 | 11.9 | 12.0 | +0.1 | 115 | 122 | +7 | 300[a] | 311 | +11 | 349[a] | 374 | +25 |
| 167669 | B-1259 | W.F. | 12/22/55 | 1 | 42.8 | 43.0 | +0.2 | 11.9 | 12.0 | +0.1 | 118 | 119 | +1 | 311 | 313 | + 2 | 353[a] | 378 | +25 |
| 167717 | B-1260 | W.F. | 12/28/55 | 1 | 42.4 | 42.9 | +0.5 | 12.0 | 12.0 | 0.0 | 118 | 119 | +1 | 293[a] | 318 | +25 | 341[a] | 395 | +54 |
| 167718 | B-1261 | W.F. | 12/30/55 | 1 | 42.6 | 43.2 | +0.6 | 11.8 | 12.0 | +0.2 | 119 | 119 | 0 | 307 | 313 | + 6 | 363[a] | 391 | +28 |
| 167939 | B-1262 | W.F. | 1/ 2/56 | 1 | 42.6 | 42.7 | +0.1 | 11.8 | 11.8 | 0.0 | 119 | 121 | +2 | 300 | 296 | - 4 | 354[a] | 355 | + 1 |
| 167940 | B-1263 | W.F. | 1/ 4/56 | 1 | 41.8 | 42.4 | +0.6 | 11.8 | 11.8 | 0.0 | 119 | 118 | -1 | 317[a] | 294 | -23 | 341[a] | 355 | +14 |
| 167970 | B-1264 | W.F. | 1/ 8/56 | 1 | 42.8 | 42.8 | 0.0 | 11.9 | 12.0 | +0.1 | 118 | 120 | +2 | 305 | 304 | - 1 | 361[a] | 384 | +23 |
| 167971 | B-1265 | W.F. | 1/10/56 | 1 | 42.8 | 43.2 | +0.4 | 12.0 | 12.0 | 0.0 | 123 | 120 | -3 | 325[a] | 315 | -10 | 367[a] | 377 | +10 |
| Current Mill Average: | | | | | 42.6 | 42.9 | +0.3 | 11.9 | 11.9 | 0.0 | 119 | 120 | +1 | 307 | 308 | + 1 | 354 | 376 | +22 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XXVI

MILL C--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| 167822 | C-721 | WF ISL | 12/19/55 | 1 | 44.2 | 43.5 | -0.7 | 13.7 | 13.3 | -0.4 | 98 | 103 | +5 | 330[a] | 274 | -56 | 348[a] | 346 | - 2 |
| 167823 | C-722 | WF ISL | 12/19/55 | 1 | 43.8 | 43.4 | -0.4 | 13.9 | 13.4 | -0.5 | 96 | 105 | +9 | 313[a] | 273 | -40 | 349[a] | 346 | - 3 |
| 167824 | C-723 | WF ISL | 12/27/55 | 1 | 42.4 | 41.7 | -0.7 | 13.3 | 12.8 | -0.5 | 103 | 106 | +3 | 320[a] | 244 | -76 | 342[a] | 304 | -38 |
| 167809 | C-724 | WF ISL | 12/27/55 | 1 | 42.1 | 41.5 | -0.6 | 13.1 | 12.8 | -0.3 | 103 | 108 | +5 | 307[a] | 240 | -67 | 351[a] | 318 | -33 |
| 167810 | C-725 | WF ISL | 12/28/55 | 1 | 42.6 | 42.5 | -0.1 | 13.5 | 12.9 | -0.6 | 106 | 111 | +5 | 317[a] | 252 | -65 | 361[a] | 326 | -35 |
| 167811 | C-726 | WF ISL | 12/28/55 | 1 | 43.0 | 42.3 | -0.7 | 13.4 | 13.0 | -0.4 | 108 | 110 | +2 | 322[a] | 250 | -72 | 363[a] | 319 | -44 |
| 167877 | C-727 | WF ISL | 12/29/55 | 1 | 43.4 | 42.6 | -0.8 | 13.2 | 12.8 | -0.4 | 110 | 107 | +7 | 338 | 272 | -66 | 361[a] | 348 | -13 |
| 167878 | C-728 | WF ISL | 12/29/55 | 1 | 43.2 | 42.6 | -0.6 | 13.1 | 12.8 | -0.3 | 104 | 107 | +3 | 323[a] | 284 | -39 | 365[a] | 349 | -16 |
| Current Mill average: | | | | | 43.1 | 42.5 | -0.6 | 13.4 | 13.0 | -0.4 | 102 | 107 | +5 | 321 | 261 | -60 | 355 | 332 | -23 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956

TABLE XXVII

MILL D--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet In | | | Elmendorf Tear, g./sheet Across | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| 167690 | D-933 | W.F. | 12/29/55 | 4 | 42.8 | 42.9 | +0.1 | 12.6 | 12.6 | 0.0 | 110 | 104 | -6 | 339[a] | 359 | +20 | 388[a] | 387 | - 1 |
| 167708 | D-934 | W.F. | 12/30/55 | 4 | 43.4 | 43.2 | -0.2 | 12.3 | 12.0 | -0.3 | 114 | 114 | 0 | 345[a] | 347 | + 2 | 374[a] | 371 | - 3 |
| 167740 | D-935 | W.F. | 12/31/55 | 4 | 42.2 | 43.5 | +1.3 | 12.1 | 12.2 | +0.1 | 115 | 112 | -3 | 325[a] | 380 | +55 | 377[a] | 393 | +16 |
| 167879 | D-936 | W.F. | 1/ 5/56 | 4 | 42.4 | 43.0 | +0.6 | 12.9 | 12.2 | -0.7 | 111 | 109 | -2 | 345[a] | 341 | - 4 | 367[a] | 376 | + 9 |
| 167880 | D-937 | W.F. | 1/ 6/56 | 4 | 44.6 | 44.5 | -0.1 | 12.7 | 12.1 | -0.6 | 115 | 113 | -2 | 372[a] | 368 | - 4 | 405[a] | 372 | -33 |
| 167881 | D-938 | W.F. | 1/ 7/56 | 4 | 43.3 | 43.0 | -0.3 | 12.7 | 12.3 | -0.4 | 109 | 107 | -2 | 362[a] | 335 | -27 | 383[a] | 379 | - 4 |
| 168045 | D-939 | W.F. | 1/12/56 | 4 | 44.2 | 44.0 | -0.2 | 13.8 | 13.1 | -0.7 | 106 | 106 | 0 | 349[a] | 361 | +12 | 386[a] | 387 | + 1 |
| 168046 | D-940 | W.F. | 1/13/56 | 4 | 44.0 | 44.8 | +0.8 | 13.8 | 12.9 | -0.4 | 111 | 109 | -2 | 341[a] | 345 | + 4 | 399[a] | 408 | + 9 |
| 168077 | D-941 | W.F. | 1/18/56 | 4 | 43.8 | 44.7 | +0.9 | 13.1 | 12.8 | -0.3 | 111 | 113 | +2 | 349[a] | 360 | +11 | 383[a] | 392 | + 9 |
| 168078 | D-942 | W.F. | 1/19/56 | 4 | 42.8 | 43.5 | +0.7 | 12.4 | 12.1 | -0.3 | 112 | 112 | 0 | 303[a] | 335 | +32 | 363[a] | 363 | 0 |
| Current Mill Average: | | | | | 43.3 | 43.7 | +0.4 | 12.8 | 12.4 | -0.4 | 111 | 110 | -1 | 343 | 353 | +10 | 382 | 383 | + 1 |

TABLE XXVIII

MILL E--42-LB. LINERBOARD

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 167682 | E-195 | WF1S | 12/29/55 | 2 | 42.6 | 42.3 | -0.3 | 13.5 | 12.7 | -0.8 | 102 | 110 | +8 | 367[a] | 296 | -71 | 373[a] | 344 | -29 |
| 167798 | E-196 | WF1S | 1/ 3/56 | 2 | 43.0 | 42.4 | -0.6 | 14.0 | 13.0 | -1.0 | 110 | 106 | -4 | 334[a] | 286 | -48 | 361[a] | 335 | -26 |
| Current Mill Average: | | | | | 42.8 | 42.4 | -0.4 | 13.7 | 12.8 | -0.9 | 106 | 108 | +2 | 351 | 291 | -60 | 367 | 340 | -27 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XXIX

MILL F--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| 167674 | F-72 | W.B. | 12/ 2/55 | - | 43.0 | 42.2 | -0.8 | 11.4 | 11.0 | -0.4 | 108 | 106 | -2 | 377[a] | 389 | +12 | 394[a] | 425 | +31 |
| 167675 | F-73 | W.B. | 12/ 7/55 | - | 42.8 | 42.1 | -0.7 | 11.9 | 11.7 | -0.2 | 100 | 96 | -4 | 375[a] | 411 | +36 | 429[a] | 424 | - 5 |
| 167676 | F-74 | W.B. | 12/ 9/55 | - | 41.1 | 41.7 | +0.6 | 11.7 | 11.3 | -0.4 | 101 | 101 | 0 | 354[a] | 395 | +41 | 405[a] | 444 | +39 |
| 167677 | F-75 | W.B. | 12/ 9/55 | - | 42.8 | 42.0 | -0.8 | 11.9 | 11.6 | -0.3 | 104 | 101 | -3 | 377[a] | 407 | +30 | 423[a] | 437 | +14 |
| 167678 | F-76 | W.B. | 12/15/55 | - | 41.8 | 42.1 | +0.3 | 11.7 | 11.4 | -0.3 | 101 | 95 | -6 | 381[a] | 388 | + 7 | 415[a] | 407 | - 8 |
| 167679 | F-77 | W.B. | 12/15/55 | - | 43.1 | 43.0 | -0.1 | 11.9 | 11.6 | -0.3 | 103 | 100 | -3 | 366[a] | 373 | + 7 | 418[a] | 427 | + 9 |
| 168087 | F-1 | W.B. | 1/ 3/56 | - | 43.3 | 42.8 | -0.5 | 11.6 | 11.0 | -0.6 | 112 | 107 | -5 | 355[a] | 339 | -16 | 383[a] | 385 | + 2 |
| 168088 | F-2 | W.B. | 1/ 6/56 | - | 43.1 | 42.9 | -0.2 | 11.8 | 11.4 | -0.4 | 109 | 116 | +7 | 371[a] | 369 | - 2 | 419[a] | 425 | + 6 |
| 168103 | F-3 | W.B. | 1/ 6/56 | - | 42.0 | 41.9 | -0.1 | 11.7 | 11.4 | -0.3 | 108 | 112 | +4 | 382[a] | 375 | - 7 | 423[a] | 443 | +20 |
| 168104 | F-4 | W.B. | 1/13/56 | - | 43.0 | 43.1 | +0.1 | 11.6 | 11.3 | -0.3 | 107 | 112 | +5 | 375[a] | 372 | - 3 | 409[a] | 424 | +15 |
| 168105 | F-5 | W.B. | 1/16/56 | - | 43.0 | 43.3 | +0.3 | 11.9 | 11.4 | -0.5 | 102 | 109 | +7 | 401[a] | 399 | - 2 | 443[a] | 442 | - 1 |
| Current Mill Average: | | | | | 42.6 | 42.5 | -0.1 | 11.7 | 11.4 | -0.3 | 105 | 105 | 0 | 374 | 383 | + 9 | 415 | 426 | +11 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XXX

MILL G--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| 167943 | G-701 | W.F. | 12/28/55 | 2 | 44.3 | 44.6 | +0.3 | 12.8 | 12.5 | -0.3 | 113 | 112 | -1 | 334[a] | 416 | +82 | 386[a] | 448 | +62 |
| 167944 | G-702 | W.F. | 12/28/55 | 2 | 44.3 | 44.6 | +0.3 | 12.8 | 12.5 | -0.3 | 111 | 111 | 0 | 327[a] | 374 | +47 | 375[a] | 438 | +63 |
| 167963 | G-703 | W.F. | 12/30/55 | 2 | 44.2 | 45.0 | +0.8 | 12.9 | 12.6 | -0.3 | 118 | 113 | -5 | 338[a] | 356 | +18 | 384[a] | 435 | +51 |
| 167964 | G-704 | W.F. | 12/30/55 | 2 | 44.7 | 45.0 | +0.3 | 12.5 | 12.6 | +0.1 | 112 | 114 | +2 | 331[a] | 352 | +21 | 373[a] | 429 | +56 |
| 167965 | G-705 | W.F. | 12/28/55 | 2 | 43.9 | 44.5 | +0.6 | 12.5 | 12.1 | -0.4 | 117 | 113 | -4 | 331 | 378 | +47 | 391[a] | 440 | +49 |
| 167966 | G-706 | W.F. | 12/22/55 | 2 | 42.8 | 42.7 | -0.1 | 12.0 | 11.7 | -0.3 | 106 | 104 | -2 | 290[a] | 337 | +47 | 359[a] | 406 | +47 |
| 167967 | G-707 | W.F. | 12/22/55 | 2 | 42.2 | 42.7 | +0.5 | 12.0 | 11.8 | -0.2 | 104 | 104 | 0 | 319[a] | 342 | +23 | 355[a] | 422 | +67 |
| 167968 | G-708 | W.F. | 1/10/56 | 2 | 41.5 | 41.7 | +0.2 | 12.0 | 11.7 | -0.3 | 104 | 106 | +2 | 303[a] | 341 | +38 | 353[a] | 399 | +46 |
| 168047 | G-709 | W.F. | 1/10/56 | 2 | 41.4 | 41.6 | +0.2 | 12.1 | 11.8 | -0.3 | 108 | 106 | -2 | 286 | 344 | +58 | 351[a] | 397 | +46 |
| 168048 | G-710 | W.F. | 1/10/56 | 2 | 41.8 | 42.0 | +0.2 | 12.1 | 11.7 | -0.4 | 107 | 106 | -1 | 293[a] | 342 | +49 | 360[a] | 393 | +33 |
| Current Mill Average: | | | | | 43.1 | 43.4 | +0.3 | 12.4 | 12.1 | -0.3 | 110 | 109 | -1 | 315 | 358 | +43 | 369 | 421 | +52 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XXXI

MILL H--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| 167773 | H-547 | W.F.[b] | 12/18/55 | 2 | 43.7 | 44.4 | +0.7 | 12.1 | 12.3 | +0.2 | 118 | 116 | -2 | 383[a] | 329 | -54 | 386[a] | 375 | -11 |
| 167774 | H-548 | W.F.[b] | 12/20/55 | 2 | 42.2 | 42.9 | +0.7 | 12.3 | 12.2 | -0.1 | 110 | 115 | +5 | 336 | 309 | -27 | 381[a] | 365 | -16 |
| 167775 | H-549 | W.F.[b] | 12/28/55 | 2 | 42.4 | 42.8 | +0.4 | 13.1 | 12.1 | -1.0 | 111 | 112 | +1 | 344 | 289 | -55 | 375[a] | 325 | -50 |
| 167776 | H-550 | W.F.[b] | 12/29/55 | 2 | 43.1 | 42.8 | -0.3 | 12.9 | 12.0 | -0.9 | 111 | 111 | 0 | 359[a] | 313 | -46 | 407[a] | 372 | -35 |
| 167972 | H-551 | W.F.[b] | 1/ 2/56 | 2 | 43.0 | 42.9 | -0.1 | 11.9 | 12.1 | +0.2 | 112 | 113 | +1 | 358 | 322 | -36 | 410[a] | 363 | -47 |
| 167973 | H-552 | W.F.[b] | 1/ 3/56 | 2 | 43.0 | 43.1 | +0.1 | 12.3 | 12.2 | -0.1 | 108 | 107 | -1 | 367[a] | 299 | -68 | 383[a] | 347 | -36 |
| 167974 | H-553 | W.F.[b] | 1/ 8/56 | 2 | 43.8 | 43.8 | 0.0 | 12.3 | 12.2 | -0.1 | 118 | 115 | -3 | 377[a] | 312 | -65 | 395[a] | 355 | -40 |
| 167975 | H-554 | W.F.[b] | 1/ 9/56 | 2 | 42.2 | 42.9 | +0.7 | 12.2 | 12.1 | -0.1 | 115 | 112 | -3 | 340[a] | 278 | -62 | 375[a] | 327 | -48 |
| Current Mill Average: | | | | | 42.9 | 43.2 | +0.3 | 12.4 | 12.1 | -0.3 | 113 | 113 | 0 | 358 | 306 | -52 | 389 | 354 | -35 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

[b]The mill data sheet identifies the finish as WFIS.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XXXII

MILL I--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| 167680 | I-516 | WF1S | 12/17/55 | 1 | 43.3 | 42.6 | -0.7 | 12.2 | 12.2 | 0.0 | 104 | 107 | +3 | 330[a] | 339 | + 9 | 371[a] | 391 | +20 |
| 167720 | I-517 | WF1S | 12/28/55 | 1 | 43.2 | 42.8 | -0.4 | 12.1 | 12.0 | -0.1 | 107 | 108 | +1 | 296 | 357 | +61 | 351[a] | 385 | +34 |
| 167947 | I-518 | WF1S | 1/ 5/56 | 1 | 42.9 | 42.6 | -0.3 | 12.1 | 12.1 | 0.0 | 110 | 109 | -1 | 307 | 303 | - 4 | 388[a] | 385 | - 3 |
| 167948 | I-519 | WF1S | 1/ 9/56 | 1 | 43.0 | 42.4 | -0.6 | 12.1 | 12.0 | -0.1 | 108 | 112 | +4 | 335[a] | 321 | -14 | 402[a] | 379 | -23 |
| 168066 | I-520 | WF1S | 1/11/56 | 1 | 43.1 | 42.5 | -0.6 | 13.1 | 12.4 | -0.7 | 111 | 110 | -1 | 311[a] | 318 | + 7 | 369[a] | 382 | +13 |
| 168067 | I-521 | WF1S | 1/12/56 | 1 | 43.7 | 42.6 | -1.1 | 13.1 | 12.4 | -0.7 | 112 | 111 | -1 | 314 | 333 | +19 | 393[a] | 394 | + 1 |
| 168102 | I-522 | WF1S | 1/17/56 | 1 | 42.8 | 42.5 | -0.3 | 12.7 | 12.2 | -0.5 | 106 | 111 | +5 | 318[a] | 339 | +21 | 391[a] | 399 | + 8 |
| Current Mill Average: | | | | | 43.1 | 42.6 | -0.5 | 12.5 | 12.2 | -0.3 | 108 | 110 | +2 | 316 | 330 | +14 | 381 | 388 | + 7 |

TABLE XXXIII

MILL J--42-LB. LINERBOARD

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 167688 | J-573 | W.F. | 12/21/55 | - | 43.7 | 43.0 | -0.7 | 13.1 | 12.6 | -0.5 | 104 | 104 | 0 | 395[a] | 324 | -71 | 371[a] | 348 | -23 |
| 167689 | J-574 | W.F. | 12/21/55 | - | 43.5 | 43.1 | -0.4 | 13.0 | 12.7 | -0.3 | 107 | 103 | -4 | 367[a] | 373 | + 6 | 378[a] | 417 | +39 |
| 167807 | J-575 | W.F. | 1/ 2/56 | - | 41.6 | 41.4 | -0.2 | 12.4 | 11.9 | -0.5 | 109 | 104 | -5 | 347[a] | 330 | -17 | 348 | 351 | + 3 |
| 167808 | J-576 | W.F. | 1/ 3/56 | - | 42.5 | 42.9 | +0.4 | 12.5 | 12.0 | -0.5 | 108 | 103 | -5 | 361[a] | 367 | + 6 | 367[a] | 407 | +40 |
| Current Mill Average: | | | | | 42.8 | 42.6 | -0.2 | 12.8 | 12.3 | -0.5 | 107 | 104 | -3 | 367 | 348 | -19 | 366 | 381 | +15 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XXXIV

MILL K--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| 167772 | K-1 | S.F. | 1/ 2/56 | 7 | 43.2 | 43.4 | +0.2 | 12.9 | 12.6 | -0.3 | 103 | 105 | +2 | 381[a] | 343 | -38 | 387[a] | 376 | -11 |
| 168062 | K-2 | S.F. | 1/11/56 | 7 | 44.2 | 44.5 | +0.3 | 13.6 | 13.2 | -0.4 | 107 | 111 | +4 | 385[a] | 360 | -25 | 383[a] | 399 | +16 |
| 168085 | K-3 | S.F. | 1/18/56 | 7 | 44.4 | 43.8 | -0.6 | 14.3 | 13.5 | -0.8 | 106 | 105 | -1 | 360[a] | 342 | -18 | 377[a] | 394 | +17 |
| Current Mill Average: | | | | | 43.9 | 43.9 | 0.0 | 13.6 | 13.1 | -0.5 | 105 | 107 | +2 | 376 | 348 | -28 | 382 | 390 | + 8 |

TABLE XXXV

MILL L--42-LB. LINERBOARD

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 167670 | L-415 | | 12/ 2/55 | 1 | 42.1 | 41.8 | -0.3 | 12.5 | 12.0 | -0.5 | 104 | 103 | -1 | 320[a] | 330 | +10 | 362[a] | 378 | +16 |
| 167671 | L-416 | | 12/ 5/55 | 1 | 43.3 | 43.0 | -0.3 | 13.4 | 12.8 | -0.6 | 107 | 108 | +1 | 339[a] | 273 | -66 | 375[a] | 312 | -63 |
| 167672 | L-417 | | 12/ 8/55 | 1 | 43.2 | 42.5 | -0.7 | 13.4 | 13.3 | -0.1 | 110 | 106 | -4 | 343[a] | 295 | -48 | 399[a] | 363 | -36 |
| 167673 | L-418 | | 12/13/55 | 1 | 43.5 | 41.9 | -1.6 | 12.6 | 11.8 | -0.8 | 107 | 104 | -3 | 320[a] | 261 | -59 | 386[a] | 357 | -29 |
| 167683 | L-419 | | 12/17/55 | 1 | 43.4 | 42.5 | -0.9 | 13.5 | 13.3 | -0.2 | 110 | 106 | -4 | 344[a] | 293 | -51 | 386[a] | 371 | -15 |
| 167684 | L-420 | | 12/19/55 | 1 | 43.4 | 41.9 | -1.5 | 12.3 | 11.8 | -0.5 | 107 | 105 | -2 | 327[a] | 251 | -76 | 367[a] | 330 | -37 |
| 168079 | L-421 | | 12/22/55 | 1 | 42.0 | 41.8 | -0.2 | 12.9 | 12.2 | -0.7 | 116 | 113 | -3 | 320[a] | 368 | +48 | 371[a] | 395 | +24 |
| 168080 | L-422 | | 12/29/55 | 1 | 41.5 | 41.6 | +0.1 | 13.2 | 12.3 | -0.9 | 115 | 107 | -8 | 326[a] | 269 | -57 | 371[a] | 357 | -14 |
| 168081 | L-423 | | 1/ 3/56 | 1 | 42.0 | 41.6 | -0.4 | 13.2 | 12.4 | -0.8 | 115 | 107 | -8 | 340[a] | 255 | -85 | 375[a] | 343 | -32 |
| 168082 | L-424 | | 1/ 6/56 | 1 | 42.0 | 41.7 | -0.3 | 12.8 | 12.2 | -0.6 | 117 | 116 | -1 | 328[a] | 345 | +17 | 361[a] | 403 | +42 |
| Current Mill Average: | | | | | 42.6 | 42.0 | -0.6 | 13.0 | 12.4 | -0.6 | 111 | 108 | -3 | 331 | 294 | -37 | 375 | 361 | -14 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XXXVI

MILL M--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| 167667 | M-356 | W. | 12/13/55 | 2 | 43.3 | 42.7 | -0.6 | 13.1 | 12.6 | -0.5 | 111 | 113 | +2 | 347[a] | 298 | -49 | 385[a] | 363 | -22 |
| 167685 | M-357 | W. | 12/23/55 | 2 | 43.2 | 43.0 | -0.2 | 13.6 | 13.1 | -0.5 | 112 | 110 | -2 | 329[a] | 327 | - 2 | 379[a] | 358 | -21 |
| 167739 | M-358 | W. | 12/29/55 | 4 | 43.8 | 43.4 | -0.4 | 13.4 | 12.8 | -0.6 | 117 | 116 | -1 | 392[a] | 332 | -60 | 420[a] | 367 | -53 |
| 167969 | M-359 | W. | 1/ 6/56 | 4 | 43.6 | 43.2 | -0.4 | 13.3 | 12.4 | -0.9 | 113 | 111 | -2 | 387[a] | 314 | -73 | 400[a] | 345 | -55 |
| 168135 | M-360 | W. | 1/12/56 | 2 | 42.7 | 42.2 | -0.5 | 12.8 | 12.2 | -0.6 | 119 | 114 | -5 | 332[a] | 286 | -46 | 387[a] | 349 | -38 |
| Current Mill Average: | | | | | 43.4 | 42.9 | -0.5 | 13.3 | 12.6 | -0.7 | 114 | 113 | -1 | 357 | 311 | -46 | 394 | 356 | -38 |

TABLE XXXVII

MILL N--42-LB. LINERBOARD

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 167665 | N-177 | WFlS | 12/17/55 | 1 | 42.5 | 42.9 | +0.4 | 12.4 | 12.0 | -0.4 | 111 | 115 | +4 | 349[a] | 404 | +55 | 394[a] | 472 | +78 |
| 167666 | N-178 | WFlS | 12/16/55 | 1 | 41.7 | 41.9 | +0.2 | 12.2 | 12.1 | -0.1 | 106 | 107 | +1 | 341[a] | 389 | +48 | 400[a] | 481 | +81 |
| 167941 | N-179 | WFlS | 1/ 1/56 | 1 | 43.8 | 43.7 | -0.1 | 12.8 | 12.3 | -0.5 | 112 | 113 | +1 | 362[a] | 362 | 0 | 405[a] | 475 | +70 |
| 167942 | N-180 | WFlS | 1/ 1/56 | 1 | 42.0 | 42.6 | +0.6 | 12.1 | 11.8 | -0.3 | 105 | 105 | 0 | 354[a] | 339 | -15 | 412a | 441 | +29 |
| 167962 | N-181 | -- | 1/10/56 | 1 | 42.0 | 42.2 | +0.2 | 12.6 | 12.2 | -0.4 | 116 | 118 | +2 | 363[a] | 362 | - 1 | 424[a] | 468 | +44 |
| 168061 | N-182 | WFlS | 1/11/56 | 1 | 42.5 | 42.6 | +0.1 | 12.8 | 12.3 | -0.5 | 110 | 116 | +6 | 371[a] | 398 | +27 | 418[a] | 467 | +49 |
| Current Mill Average: | | | | | 42.4 | 42.6 | +0.2 | 12.5 | 12.1 | -0.4 | 110 | 112 | +2 | 357 | 376 | +19 | 409 | 467 | +58 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1950 (continued)

TABLE XXXVIII

MILL O--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, P.s.i. Gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| No samples submitted | | | | | | | | | | | | | | | | | | | |

TABLE XXXIX

MILL P--42-LB. LINERBOARD

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 167709 | P-138 | W.F. | 12/19/55 | - | 43.0 | 43.0 | 0.0 | 12.4 | 11.6 | -0.8 | 108 | 110 | +2 | 308[a] | 383 | +15 | 414[a] | 405 | - 9 |
| 167710 | P-139 | W.F. | 12/19/55 | - | 42.5 | 43.0 | +0.5 | 12.2 | 11.9 | -0.3 | 112 | 108 | -4 | 364[a] | 393 | +29 | 388[a] | 400 | +12 |
| 167711 | P-140 | W.F. | 12/19/55 | - | 42.5 | 42.5 | 0.0 | 12.1 | 11.7 | -0.4 | 111 | 112 | +1 | 343[a] | 389 | +46 | 380[a] | 393 | +13 |
| 167712 | P-141 | W.F. | 12/19/55 | - | 42.1 | 44.1 | +2.0 | 12.3 | 12.1 | -0.2 | 109 | 110 | +1 | 345[a] | 363 | +18 | 367[a] | 381 | +14 |
| 167713 | P-142 | W.F. | 12/21/55 | - | 43.2 | 43.2 | 0.0 | 12.6 | 12.3 | -0.3 | 107 | 106 | -1 | 337[a] | 309 | +32 | 357[a] | 375 | +18 |
| 167714 | P-143 | W.F. | 12/21/55 | - | 41.6 | 42.4 | +0.8 | 12.1 | 11.8 | -0.3 | 102 | 104 | +2 | 328[a] | 347 | +19 | 361[a] | 355 | - 6 |
| Current Mill Average: | | | | | 42.5 | 43.0 | +0.5 | 12.3 | 11.9 | -0.4 | 108 | 108 | 0 | 348 | 374 | +26 | 378 | 385 | + 7 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XXXX

MILL Q--42-LB. LINERBOARD

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| 167686 | Q-49 | WFLS | 12/21/55 | - | 44.8 | 44.0 | -0.8 | 14.8 | 13.9 | -0.9 | 93 | 95 | +2 | 351[a] | 345 | - 6 | 409[a] | 393 | -16 |
| 167687 | Q-50 | WFLS | 12/23/55 | - | 44.2 | 43.4 | -0.8 | 14.5 | 13.8 | -0.7 | 101 | 101 | 0 | 332[a] | 340 | + 8 | 391[a] | 393 | + 2 |
| 167719 | Q-51 | WFLS | 12/28/55 | 3 | 42.6 | 42.4 | -0.2 | 13.4 | 12.9 | -0.5 | 101 | 105 | +4 | 313[a] | 337 | +24 | 353[a] | 377 | +24 |
| 168083 | Q-52 | WFLS | 1/18/56 | 3 | 44.5 | 44.2 | -0.3 | 15.0 | 14.0 | -1.0 | 102 | 100 | -2 | 347[a] | 323 | -24 | 374[a] | 364 | -10 |
| 168084 | Q-53 | WFLS | 1/19/56 | 3 | 42.9 | 42.2 | -0.7 | 14.4 | 13.6 | -0.8 | 106 | 106 | 0 | 335 | 313 | -22 | 363[a] | 356 | - 7 |
| Current Mill Average: | | | | | 43.8 | 43.3 | -0.5 | 14.4 | 13.6 | -0.8 | 101 | 101 | 0 | 336 | 332 | - 4 | 378 | 377 | - 1 |

TABLE XLI

MILL E--MISCELLANEOUS

47-lb. Drum Linerboard

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 167946 | E-199 | W.F. | 1/13/56 | 2 | 47.4 | 48.8 | +1.4 | 14.1 | 13.8 | -0.3 | 94 | 100 | +6 | 353[a] | 388 | +35 | 372[a] | 418 | +46 |
| Current Mill Average: | | | | | 47.4 | 48.8 | +1.4 | 14.1 | 13.8 | -0.3 | 94 | 100 | +6 | 353 | 388 | +35 | 372 | 418 | +46 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.

Note: All "current mill average" data are calculated from the totals of the individual readings.

COMPARISON OF INSTITUTE AND MILL DATA--JANUARY 1 THROUGH JANUARY 31, 1956 (continued)

TABLE XLI (continued)

MILL E--MISCELLANEOUS

| File No. | Mill Code | Finish | Date Made | Mch. No. | Basis Weight, lb. | | | Caliper, points | | | Bursting Strength, p.s.i. gage | | | Elmendorf Tear, g./sheet | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | In | | | Across | | |
| | | | | | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. | IPC | Mill | Diff. |
| | | | | | | | | 33-lb. Linerboard | | | | | | | | | | | |
| 168086 | E-200 | W.F. | 1/19/56 | 2 | 33.9 | 33.9 | 0.0 | 10.2 | 10 | -0.2 | 78 | 76 | -2 | 258 | 256 | - 2 | 255[a] | 268 | +13 |
| | | | | | | | | 38-lb. Linerboard | | | | | | | | | | | |
| 167945 | E-198 | WFLS | 1/11/56 | 2 | 37.4 | 37.7 | +0.3 | 11.4 | 11 | -0.4 | 93 | 98 | +5 | 313[a] | 298 | -15 | 271[a] | 298 | +27 |
| | | | | | | | | 45-lb. Linerboard | | | | | | | | | | | |
| 167681 | E-194 | WFLS | 12/27/55 | 2 | 46.8 | 46.2 | -0.6 | 14.5 | 13.5 | -1.0 | 107 | 110 | +3 | 366[a] | 334 | -32 | 397[a] | 402 | + 5 |
| | | | | | | | | 69-lb. Linerboard | | | | | | | | | | | |
| 167799 | E-197 | W.F. | 1/ 4/56 | 2 | 68.6 | 69.7 | +1.1 | 20.5 | 20 | -0.5 | 149 | 154 | +5 | 538[a] | 531 | - 7 | 614[a] | 608 | - 6 |

[a]This average includes the readings for one or more specimens which tore beyond the 3/8-inch limit.